

## SEQUENCE LISTING

<110> Watkins, Maren Olivera, Baldomero M. Hillyard, David R. McIntosh, J. Michael Jones, Robert M. <120> Alpha-Conotoxin Peptides <130> 2314-179.A <140> US 09/493,795 <141> 2000-01-28 <150> US 60/118,381 <151> 1999-01-29 <160> 404 <170> PatentIn Ver. 2.0 <210> 1 <211> 17 <212> PRT <213> Artificial Sequence <220> <223> Description of Artificial Sequence: Alpha-Conotoxin Peptide Generic Formula I <220> <221> SITE <222> (1)..(3) <223> Xaa at residue 1 is des-Xaa, Ile, Leu or Val; Xaa at residue 2 is des-Xaa, Ala or Gly; Xaa at residue 3 is des-Xaa, Gly, Trp (D or L), neo-Trp, halo-Trp or any unnatural aromatic amino acid. <220> <221> SITE <222> (4)..(5) <223> N-methyl-Lys, Xaa at residue 4 is des-Xaa, Gly, Trp (D or L), neo-Trp, halo-Trp or any unnatural aromatic amino acid; Xaa at residue 5 is Glu, gamma-carboxy-Glu (Gla), Asp, Ala, Thr, Ser, Gly, <220> <221> SITE <222> (5)..(8) <223> Ile, Tyr, nor-Tyr, mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr, nitro-Tyr or any unnatural hydroxy containing amino acid; Xaa at residue 8 is Ser, Thr, Arg, ornithine, <220> <221> SITE <222> (8)..(9)

<223> homoarginine, Lys, N,N-dimethyl-Lys, N,N,N-

trimethyl-Lys or any unnatural basic amino acid; Xaa at residue 9 is Asp, Glu, Gla, Arg, ornithine, homoarginine, Lys, N-methyl-Lys,N,N-dimethyl-

<220>



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Jont
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<221> SITE
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<223> Lys, N,N,N-trimethyl-Lys or any unnatural basic
 amino acid; Xaa at residue 10 is Ser, Thr, Asn,
 Ala, Gly, Arg, Lys, ornithine, homoarginine,
 N-methyl-Lys, N,N-dimethyl-Lys, N,N,N-trimethyl<220>
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<223> Lys, any unnatural basic amino acid, His, haloHis, Pro or hydroxy-Pro: Xaa at residue 11 is

His, Pro or hydroxy-Pro; Xaa at residue 11 is Thr, Ser, Ala, Asp, Asn, Pro, hydroxy-Pro, Arg, ornithine, homoarginine, Lys, N-methyl-Lys,

<220> <221> SITE <222> (11)..(13)

<223> N,N-dimethyl-Lys, N,N,N-trimethyl-Lys or any unnatural basic amino acid; Xaa at residue 13 is Gly, Ser, Thr, Ala, Asn, Arg, ornithine, homoarginine, Lys, N-methyl-Lys,

<220> <221> SITE <222> (13)..(14)

<223> N,N-dimethyl-Lys, N,N,N-trimethyl-Lys or any unnatural basic amino acid; Xaa at residue 14 is Gln, Leu, His, halo-His, Trp (D or L), halo-Trp, neo-Trp, Tyr, nor-Tyr, mono-halo-Tyr, di-halo-

<220> <221> SITE ·<222> (14)

<223> Tyr, O-sulpho-Tyr, O-phospho-Tyr, nitro-Tyr, Arg, ornithine, homoarginine, Lys, N-methyl-Lys, N,N-dimethyl-Lys, N,N,N-trimethyl-Lys, any unnatural basic amino acid or any unnatural aromatic amino

<220> <221> SITE <222> (14)..(15)

<223> acid; Xaa at residue 15 is Asn, His, halo-His,
 Ile, Leu, Val, Gln, Arg, ornithine, homoarginine,
 Lys, N-methyl-Lys, N,N-dimethyl-Lys, N,N,N trimethyl-Lys or any unnatural basic amino acid;

<220> <221> SITE <222> (17)

<223> Xaa at residue 17 is des-Xaa, Val, Ile, Leu, Arg, ornithine, homoarginine, Lys, N-methyl-Lys, N,N-dimethyl-Lys, N,N,N-trimethyl-Lys or any unnatural basic amino acid.

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Xaa

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      Gln, Ala, Asp, Glu, Gla; Xaa at residue 3 is des-
      Xaa, Gly, Ala, Asp, Glu, Gla, Pro or hydroxy-Pro.
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<223> Xaa at residue 4 is des-Xaa, Gly, Glu, Gla, Gln,
      Asp, Asn, Pro or hydroxy-Pro; Xaa at residue 7 is
      Ser, Thr, Gly, Glu, Gla, Asn, Trp (D or L),
      neo-Trp, halo-Trp, Arg, ornithine, homoarginine,
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<223> Lys, N-methyl-Lys, N,N-dimethyl-Lys, N,N,N-
      trimethyl-Lys, any unnatural basic amino acid,
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      O-sulpho-Tyr, O-phospho-Tyr, nitro-Tyr or any
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<222> (7)..(8)
<223> unnatural hydroxy containing amino acid; Xaa at
      residue 8 is Asp, Asn, His, halo-His, Thr, Ser,
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      O-sulpho-Tyr, O-phospho-Tyr, nitro-Tyr or any
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<222> (8)..(10)
<223> unnatural hydroxy containing amino acid; Xaa at
      residue 9 is Pro or hydroxy-Pro; Xaa at residue
      10 is Ala, Ser, Thr, Asp, Val, Ile, Pro, hydroxy-
      Pro, Tyr, nor-Tyr, mono-halo-Tyr, di-halo-Tyr,
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<223> O-sulpho-Tyr, O-phospho-Tyr, nitro-Tyr or any
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      Pro, hydroxy-Pro, Phe, Trp (D or L), neo-Trp,
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<222> (12)..(13)
<223> halo-Trp, Arg, ornithine, homoarginine, Lys, N-
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      Lys, any unnatural basic amino acid or any
      unnatural aromatic amino acid; Xaa at residue 13
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<223> is Ala, Asn, Phe, Pro, hydroxy-Pro, Glu, Gla,
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      dimethyl-Lys, N,N,N-trimethyl-Lys or any
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<223> unnatural basic amino acid; Xaa at residue 14 is
      Thr, Ser, His, halo-His, Leu, Ile, Val, Asn, Met,
      Pro, hydroxy-Pro, Arg, ornithine, homoarginine,
      Lys, N-methyl-Lys, N, N-dimethyl-Lys, N, N, N-
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<222> (14)..(15)
<223> trimethyl-Lys, any unnatural basic amino acid,
      Tyr, nor-Tyr, mono-halo-Tyr, di-halo-Tyr,
      O-sulpho-Tyr, O-phospho-Tyr, nitro-Tyr or any
      unnatural hydroxy containing amino acid; Xaa at
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<222> (15)
<223> residue 15 is Asn, Pro, hydroxy-Pro, Gln, Ser,
      Thr, Arg, ornithine, homoarginine, Lys, N-methyl-
      Lys, N, N-dimethyl-Lys N, N, N-trimethyl-Lys, any
      unnatural basic amino acid, Tyr, nor-Tyr, mono-
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<222> (15)..(16)
<223> halo-Tyr, di-halo-Tyr, O-sulpho-Tyr, O-phospho-
      Tyr, nitro-Tyr or any unnatural hydroxy contain-
      ing amino acid; Xaa at residue 16 is des-Xaa,
      Gly, Thr, Ser, Pro, hydroxy-Pro, Tyr, nor-Tyr,
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<221> SITE
<222> (16)..(17)
<223> mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,
      O-phospho-Tyr, nitro-Tyr or any unnatural hydroxy
      containing amino acid; Xaa at residue 17 is des-
      Xaa, Ile, Val, Asp, Leu, Phe, Arg, ornithine,
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<222> (17)
<223> homoarginine, Lys, N-methyl-Lys, N,N-dimethyl-
      Lys, N,N,N-trimethyl-Lys, any unnatural basic
      amino acid, Tyr, nor-Tyr, mono-halo-Tyr, di-halo-
      Tyr, O-sulpho-Tyr, O-phospho-Tyr, nitro-Tyr or
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<222> (17)..(19)
<223> any unnatural hydroxy containing amino acid; Xaa
      at residue 19 is des-Xaa, Gly, Ala, Met, Ser,
      Thr, Trp (D or L), neo-Trp, halo-Trp, any
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unnatural aromatic amino acid, Arg, ornithine,

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      amino acid; Xaa at residue 20 is des-Xaa, Trp
      (D or L), neo-Trp, halo-Trp, any unnatural
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<223> aromatic amino acid, Arg, ornithine, homo-
      arginine, Lys, N-methyl-Lys, N,N-dimethyl-Lys,
      N, N, N-trimethyl-Lys or any unnatural basic amino
      acid; Xaa at residue 21 is des-Xaa, Arg,
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<222> (21)
<223> ornithine, homoarginine, Lys, N-methyl-Lys,
      N, N-dimethyl-Lys, N, N, N-trimethyl-Lys or any
      unnatural basic amino acid.
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Xaa Cys Xaa Xaa Xaa
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<223> Description of Artificial Sequence: Alpha-Conotoxin
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<223> Xaa at residue 1 is des-Xaa, Ser or Thr; Xaa at
      residue 2 is des-Xaa, Asp, Glu, gamma-carboxy-Glu
      (Gla), Asn, Ser or Thr; Xaa at residue 3 is des-
      Xaa, Ala, Gly, Asn, Ser, Thr, Pro, hydroxy-Pro,
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<222> (3)..(4)
<223> Arg, ornithine, homoarginine, Lys, N-methyl-Lys,
      N, N-dimethyl-Lys, N, N, N-trimethyl-Lys or any
      unnatural basic amino acid; Xaa at residue 4 is
      des-Xaa, Ala, Val, Leu, Ile, Gly, Glu, Gla, Gln,
<220>
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<222> (4)..(5)
<223> Asp, Asn, Phe, Pro, hydroxy-Pro or any unnatural
      aromatic amino acid; Xaa at residue 5 is des-Xaa,
      Thr, Ser, Asp, Glu, Gla, Gln, Gly, Val, Asp, Asn,
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Ala, Pro, hydroxy-Pro, Arg, ornithine, homo-

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<222> (5)..(8)
<223> arginine, Lys, N-methyl-Lys, N,N-dimethyl-Lys,
      N, N, N-trimethyl-Lys or any unnatural basic amino
      acid; Xaa at residue 8 is Thr, Ser, Asp, Asn, Met,
      Val, Ala, Gly, Leu, Ile, Phe, any unnatural
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<222> (8)..(9)
<223> aromatic amino acid, Pro, hydroxy-Pro, Tyr, nor-
      Tyr, mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,
      O-phospho-Tyr, nitro-Tyr or any unnatural hydroxy
      containing amino acid; Xaa at residue 9 is Ile,
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<223> Leu, Val, Ser, Thr, Gln, Asn, Asp, Arg, His,
      halo-His, Phe, any unnatural aromatic amino
      acid, homoarginine, ornithine, Lys, N-methyl-Lys,
      N, N-dimethyl-Lys, N, N, N-trimethyl-Lys, any
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<222> (9)..(10)
<223> unnatural basic amino acid, Tyr, nor-Tyr, mono-
      halo-Tyr, di-halo-Tyr, O-sulpho-Tyr, O-phospho-
      Tyr, nitro-Tyr or any unnatural hydroxy contain-
      ing amino acid; Xaa at residue 10 is Pro, hyroxy-
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<222> (10)
<223> Pro, Ser, Thr, Ile, Asp, Leu, Val, Gly, Ala, Phe,
      any unnatural aromatic amino acid, Arg, ornithine,
      homoarginine, Lys, N-methyl-Lys, N,N-dimethyl-Lys,
      N, N, N-trimethyl-Lys or any unnatural basic amino
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<222> (11)
<223> acid; Xaa at residue 11 is Val, Ala, Gly, Ile,
      Leu, Asp, Ser, Thr, Pro, hydroxy-Pro, Arg, ornithine, homoarginine, Lys, N-methyl-Lys,
      N, N-dimethyl-Lys, N, N, N-trimethyl-Lys or any
<220>
<221> SITE
<222> (11)..(13)
<223> unnatural basic amino acid; Xaa at residue 13 is
      His, halo-His, Arg, homoarginine, ornithine, Lys,
      N-methyl-Lys, N, N-dimethyl-Lys, N, N, N-trimethyl-
      Lys, any unnatural basic amino acid, Asn, Ala,
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<223> Ser, Thr, Phe, Ile, Leu, Gly, Trp (D or L), neo-
      Trp, halo-Trp, any unnatural aromatic amino acid,
      Tyr, nor-Tyr, mono-halo-Tyr, di-halo-Tyr,
      O-sulpho-Tyr, O-phospho-Tyr, nitro-Tyr or any
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<220>
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<222> (13)..(14)
<223> unnatural hydroxy containing amino acid; Xaa at
      residue 14 is Leu, Gln, Val, Ile, Gly, Met, Ala,
      Lys, N-methyl-Lys, N, N-dimethyl-Lys, N, N, N-tri-
      methyl-Lys, Ser, Thr, Arg, homoarginine, orni-
<220>
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<223> thine, any unnatural basic amino acid, Asn, Glu,
      Gla, Gln, Phe, Trp (D or L), neo-Trp, halo-Trp or
      any unnatural aromatic amino acid; Xaa at residue
      15 is Glu, Gla, Gln, Asn, Asp, Pro, hydroxy-Pro,
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<223> Ser, Gly, Thr, Lys, N-methyl-Lys, N,N-dimethyl-
      Lys, N,N,N-trimethyl-Lys, Arg, homoarginine,
      ornithine, any unnatural basic amino acid, Phe,
      His, halo-His, any unnatural aromatic acid, Leu,
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<223> Met, Gly, Ala, Tyr, nor-Tyr, mono-halo-Tyr, di-
halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr, nitro-Tyr
      or any unnatural hydroxy containing amino acid;
      Xaa at residue 16 is His, halo-His, Asn, Thr,
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<222> (16)
<223> Ser, Ile, Val, Leu, Phe, any unnatural aromatic
      amino acid, Arg, homoarginine, ornithine, Lys, N-
      methyl-Lys, N,N-dimethyl-Lys, N,N,N-trimethyl-Lys,
      any unnatural basic amino acid, Tyr, nor-Try,
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<222> (16)..(17)
<223> mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,
      O-phospho-Tyr, nitro-Tyr or any unnatural hydroxy
      containing amino acid; Xaa at residue 17 is Ser,
      Thr, Ala, Gln, Pro, hydroxy-Pro, Gly, Ile, Leu,
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<223> Arg, ornithine, homoarginine, Lys, N-methyl-Lys,
      N, N-dimethyl-Lys, N, N, N-trimethyl-Lys or any
      unnatural basic amino acid; Xaa at residue 18 is
      Asn, Glu, Gla, Asp, Gly, His, halo-His, Ala, Leu,
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<222> (18)
<223> Gln, Arg, ornithine, homoarginine, Lys, N-methyl-
      Lys, N, N-dimethyl-Lys, N, N, N-trimethyl-Lys, any
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unnatural basic amino acid, Tyr, nor-Tyr, monohalo-Tyr, di-halo-Tyr, O-sulpho-Tyr, O-phospho-

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<222> (18)..(19)
<223> Tyr, nitro-Tyr or any unnatural hydroxy containing
       amino acid; Xaa at residue 19 is Met, Ile, Thr,
       Ser, Val, Leu, Pro, hydroxy-Pro, Phe, any
       unnatural aromatic amino acid, Tyr, nor-Tyr, mono-
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<223> halo-Tyr, di-halo-Tyr, O-sulpho-Tyr, O-phospho-
      Tyr, nitro-Tyr, any unnatural hydroxy containing
      amino acid, Glu, Gla, Ala, His, halo-His, Arg,
      ornithine, homoarginine, Lys, N-methyl-Lys, N,N-
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<222> (21)
<223> dimethyl-Lys, N,N,N-trimethyl-Lys or any unnatural
      basic amino acid; Xaa at residue 21 is des-Xaa, Gly, Asp, Asn, Ala, Ile, Leu, Ser, Thr, His, halo-
      His, Arg, ornithine, homoarginine, Lys, N-methyl-
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<223> Lys, N, N-dimethyl-Lys, N, N, N-trimethyl-Lys or any
      unnatural basic amino acid; Xaa at residue 22 is des-Xaa, Gly, Glu, Gla, Gln, Trp (D or L), neo-Trp,
      halo-Trp, any unnatural aromatic amino acid, Arg,
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<222> (22)..(23)
<223> ornithine, homoarginine, Lys, N-methyl-Lys, N,N-
      dimethyl-Lys, N,N,N-trimethyl-Lys or any unnatural
      basic amino acid; Xaa at residue 23 is des-Xaa,
      Ser, Thr, Val, Ile, Ala, Arg, ornithine, homo-
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<222> (23)..(24)
<223> arginine, Lys, N-methyl-Lys, N,N-dimethyl-Lys,
      N, N, N-trimethyl-Lys or any unnatural basic amino
      acid; Xaa at residue 24 is des-Xaa, Val, Asp, His,
      halo-His, Arg, ornithine, homoarginine, Lys, N-
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<222> (24)..(26)
<223> methyl-Lys, N,N-dimethyl-Lys, N,N,N-trimethyl-Lys
      or any unnatural basic amino acid; Xaa at residue
      25 is des-Xaa, Asn, Pro or hydroxy-Pro; Xaa at
      residue 26 is des-Xaa, Arg, ornithine, homo-
<220>
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<222> (26)..(28)
<223> arginine, Lys, N-methyl-Lys, N,N-dimethyl-Lys,
      N,N,N-trimethyl-Lys or any unnatural basic amino
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acid; Xaa at residue 27 is des-Xaa, Ser or Thr; Xaa at residue 28 is des-Xaa, Leu, Ile or Val.

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Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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<223> Xaa at residue 2 is Glu or gamma-carboxy-Glu; Xaa
      at residue 11 is Lys, N-methyl-Lys,
      N, N-dimethyl-Lys or N, N, N-trimethyl-Lys.
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<210> 5
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<213> Conus imperialis
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<223> Xaa at residue 10 is Trp (D or L) or halo-Trp.
Ala Cys Cys Ser Asp Arg Arg Cys Arg Xaa Arg Cys
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Phe Thr Cys Cys Arg Arg Gly Thr Cys Ser Gln His Cys
<210> 7
<211> 13
<212> PRT
<213> Conus regius
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<222> (2)
<223> Xaa at residue 2 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr.
<400> 7
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Asp Xaa Cys Cys Arg Arg His Ala Cys Thr Leu Ile Cys



10

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<212> PRT
<213> Conus regius
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<221> SITE
<222> (2)..(8)
<223> Xaa at residue 2 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr; Xaa at residues 7 and 8 is Pro or
      hydroxy-Pro.
<400> 8
Asp Xaa Cys Cys Arg Arg Xaa Xaa Cys Thr Leu Ile Cys
                                      10
<210> 9
<211> 13
<212> PRT
<213> Conus regius
<220>
<221> SITE
<222> (6)..(10)
<223> Xaa at residue 6 is Pro or hdroxy-Pro; Xaa at
      residue 10 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr.
<400> 9
Gly Cys Cys Ser Asp Xaa Arg Cys Arg Xaa Arg Cys Arg
<210> 10
<211> 13
<212> PRT
<213> Conus regius
<220>
<221> SITE
<222> (7)..(11)
<223> Xaa at residue 7 is Pro or hydroxy-Pro; Xaa at
      residue 11 is Trp (D or L) or halo-Trp.
<400> 10
Gly Gly Cys Cys Ser Asp Xaa Arg Cys Ala Xaa Arg Cys
                                      10
<210> 11
<211> 17
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<223> Xaa at residue 3 is Trp (D or L) or halo-Trp; Xaa

1 .

<210> 8 <211> 13

<212> PRT

<220> <221> SITE <222> (3)..(10)

<213> Conus regius

at residue 9 is Glu or gamma-carboxy-Glu; Xaa at residue 10 is Pro or hydroxy-Pro. <220> <221> SITE <222> (15) <223> Xaa at residue 15 is Lys, N-methyl-Lys, N, N-dimethyl-Lys or N, N, N-trimethyl-Lys. <400> 11 Ile Ala Xaa Asp Ile Cys Cys Ser Xaa Xaa Asp Cys Asn His Xaa Cys Val <210> 12 <211> 12 <212> PRT <213> Conus regius <220> <221> SITE <222> (6)..(9) <223> Xaa at residue 6 is Pro or hydroxy-Pro; Xaa at. residue 9 is Lys, N-methyl-Lys, N,N-dimethyl-Lys or N, N, N-trimethyl-Lys. <400> 12 Gly Cys Cys Ser Asp Xaa Arg Cys Xaa His Gln Cys 10 <210> 13 <211> 14 <212> PRT <213> Conus sponsalis <220> <221> SITE <222> (5)..(11) <223> Xaa at residues 5 and 11 is Pro or hydroxy-Pro; Xaa at residue 8 is Lys, N-methyl-Lys, N.N-dimethyl-Lys or N.N.n-trimethyl-Lys. <400> 13 Cys Cys Ser Asp Xaa Ala Cys Xaa Gln Thr Xaa Gly Cys Arg <210> 14 <211> 13 <212> PRT <213> Conus sponsalis <220> <221> SITE

<223> Xaa at residue 3 is Glu or gamma-carboxy-Glu; Xaa

at residue 5 is Pro or hydroxy-Pro.

Cys Cys Xaa Asn Xaa Ala Cys Arg His Thr Gln Gly Cys

<222> (3)..(5)

5 10 <210> 15 <211> 13 <212> PRT <213> Conus sulcatus <220> <221> SITE <222> (4)..(12) <223> Xaa at residue 4 is Trp or halo-Trp; Xaa at residue 6 is Pro or hydroxy-Pro; Xaa at residue 12 is Tyr, nor-Tyr, mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or nitro-Tyr. Gly Cys Cys Xaa His Xaa Ala Cys Gly Arg His Xaa Cys <210> 16 <211> 14 <212> PRT <213> Conus achatinus <220> <221> SITE <222> (2)..(11) <223> Xaa at residues 2 and 7 is Pro or hydroxy-Pro; Xaa at residue 11 is Lys, N-methyl-Lys, N, N-dimethyl-Lys or N, N, N-trimethyl-Lys. <400> 16 Ala Xaa Cys Cys Asn Asn Xaa Ala Cys Val Xaa His Arg Cys <210> 17 <211> 15 <212> PRT <213> Conus bullatus <220> <221> SITE <222> (2)..(12) <223> Xaa at residues 2 and 8 is Pro or hydroxy-Pro; Xaa at residue 12 is Lys, N-methyl-Lys, N, N-dimethyl-Lys or N, N, N-trimethyl-Lys. <400> 17 Ala Xaa Gly Cys Cys Asn Asn Xaa Ala Cys Val Xaa His Arg Cys <210> 18 <211> 14 <212> PRT <213> Conus bullatus <220> <221> SITE <222> (1)..(11)

<223> Xaa at residues 1, 2 and 7 is Pro or hydroxy-Pro;

Xaa at residue 11 is Lys, N-methyl-Lys, N, N-dimethyl-Lys or N, N, N-trimethyl-Lys. Xaa Xaa Cys Cys Asn Asn Xaa Ala Cys Val Xaa His Arg Cys <210> 19 <211> 16 <212> PRT <213> Conus bullatus <220> <221> SITE <222> (2)..(13) <223> Xaa at residue 2 is Glu or gamma-carboxy-Glu; Xaa at residue 6 is Trp or halo-Trp; Xaa at residues 8 11 and 13 is Pro or hydroxy-Pro. Asp Xaa Asn Cys Cys Xaa Asn Xaa Ser Cys Xaa Arg Xaa Arg Cys Thr 5 <210> 20 <211> 13 <212> PRT <213> Conus bullatus <220> <221> SITE <222> (6)..(12) <223> Xaa at residues 6 and 7 is Pro or hydroxy-Pro; Xaa .at residue 12 is Tyr, nor-Tyr, mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or nitro-Tyr. <400> 20 Gly Cys Cys Ser Arg Xaa Xaa Cys Ala Val Leu Xaa Cys <210> 21 <211> 13 <212> PRT <213> Conus circumcisus <220> <221> SITE <222> (6) <223> Xaa at residue 6 is Pro or hydroxy-Pro. <400> 21 Gly Cys Cys Gly Asn Xaa Asp Cys Thr Ser His Ser Cys <210> 22 <211> 16 <212> PRT <213> Conus stercusmuscarum

<220>

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<221> SITE
 <222> (6)..(11)
 <223> Xaa at residue 6 is Pro or hydroxy-Pro; Xaa at
       residue 11 is Glu or gamma-carboxy-Glu.
 <400> 22
 Gly Cys Cys Ser Asn Xaa Val Cys His Leu Xaa His Ser Asn Met Cys
                                       10
<210>, 23
<211> 17
<212> PRT
<213> Conus obscurus
<220>
<221> SITE
<222> (6)..(15)
<223> Xaa at residue 6 is Pro or hydroxy-Pro; Xaa at
      residue 14 is Glu or gamma-carboxy-Glu; Xaa at
      residue 15 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
. <220>
<221> SITE
<222> (15)
<223> nitro-Tyr.
<400> 23 ·
Gly Cys Cys Ser Asn Xaa Val Cys Arg Gln Asn Asn Ala Xaa Xaa Cys
                                      10
Arg
<210> 24
<211> 18
<212> PRT
<213> Conus textile
<220>
<221> SITE
<222> (1)..(15)
<223> Xaa at residues 1, 7 and 14 is Pro or hydroxy-Pro;
      Xaa at residue 15 is Glu or gamma-carboxy-Glu.
<400> 24
Xaa Gln Cys Cys Ser His Xaa Ala Cys Asn Val Asp His Xaa Xaa Ile
                                      10
Cys Arg
<210> 25
<211> 18
<212> PRT
<213> Conus radiatus
<220>
<221> SITE
<222> (1)..(15)
<223> Xaa at residues 1, 7 and 14 is Pro or hydroxy-Pro;
```

Xaa at residues 2 and 15 is Glu or gamma-carboxy-Glu. Xaa Xaa Cys Cys Ser His Xaa Ala Cys Asn Val Asp His Xaa Xaa Ile Cys Arg <210> 26 <211> 18 <212> PRT <213> Conus radiatus <220> <221> SITE <222> (1)..(15) <223> Xaa at residues 1, 7 and 14 is Pro or hydroxy-Pro; Xaa at residue 15 is Glu or gamma-carboxy-Glu. <400> 26 Xaa Gln Cys Cys Ser His Xaa Ala Cys Asn Val Asp His Xaa Xaa Ile 10 Cys Asp <210> 27 <211> 18 <212> PRT <213> Conus omaria <220> <221> SITE <222> (1)..(15) <223> Xaa at residues 1, 7 and 14 is Pro or hydroxy-Pro; Xaa at residue 15 is Glu or gamma-carboxy-Glu. Xaa Arg Cys Cys Ser His Xaa Ala Cys Asn Val Asp His Xaa Xaa Ile 1 10 Cys Arg <210> 28 <211> 18 <212> PRT <213> Conus omaria <220> <221> SITE <222> (1)..(14) <223> Xaa at residues 1, 7 and 14 is Pro or hydroxy-Pro. <400> 28

Xaa Gln Cys Cys Ser His Xaa Ala Cys Asn Val Asp His Xaa Gly Ile

10

5

Cys Arg

1

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<210> 29
<211> 18
<212> PRT
<213> Conus omaria
<220>
<221> SITE
<222> (1)..(15)
<223> Xaa at residues 1, 7 and 14 is Pro or hydroxy-Pro;
      Xaa at residue 15 is Glu or gamma-carboxy-Glu.
<400> 29
Xaa Gln Cys Cys Ser His Xaa Ala Cys Asn Val Asp His Xaa Xaa Thr
  1
                  5
                                      10 .
Cys Arg
<210> 30
<211> 18
<212> PRT
<213> Conus omaria
<220>
<221> SITE
<222> (1)..(15)
<223> Xaa at residues 1, 7 and 14 is Pro or hydroxy-Pro;
    Xaa at residue 15 is Glu or gamma-carboxy-Glu.
<400> 30
Xaa Gln Cys Cys Ser His Xaa Ala Cys Asn Val Asp His Xaa Xaa Val
                  5
                                      10
Cys Arg
<210> 31
<211> 18
<212> PRT
<213> Conus omaria
<220>
<221> SITE
<222> (1)..(15)
<223> Xaa at residues 1, 7 and 14 is Pro or hydroxy-Pro;
      Xaa at residue 15 is Glu or gamma-carboxy-Glu.
<400> 31
Xaa Gln Cys Cys Ser His Xaa Ala Cys Asn Ile Asp His Xaa Xaa Ile
Cys Arg
<210> 32
<211> 21
<212> PRT
<213> Conus omaria
```

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<220>
<221> SITE
<222> (1)..(15)
<223> Xaa at residues 1, 7 and 14 is Pro or hydroxy-Pro;
      Xaa at residue 15 is Glu or gamma-carboxy-Glu.
<400> 32
Xaa Gln Cys Cys Ser His Xaa Ala Cys Asn Val Asp His Xaa Xaa Ile
                                      10
Cys Arg Arg Arg Arg
             20
<210> 33
<211> 17
<212> PRT
<213> Conus betulinus
<220>
<221> SITE
<222> (7)..(15)
<223> Xaa at residues 7 and 14 is Pro or hydroxy-Pro;
      Xaa at residue 15 is Glu or gamma-carboxy-Glu.
<400> 33
Gly Gly Cys Cys Ser His Xaa Ala Cys Ala Val Asn His Xaa Xaa Leu
                                      10
                                                          15
Cys
<210> 34
<211> 16.
<212> PRT
<213> Conus betulinus
<220>
<221> SITE
<222> (6)..(14)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro;
      Xaa at residue 14 is Glu or gamma-carboxy-Glu.
<400> 34
Gly Cys Cys Ser His Xaa Ala Cys Ser Val Asn His Xaa Xaa Leu Cys
<210> 35
<211> 16
<212> PRT
<213> Conus dalli
<220>
<221> SITE
<222> (6)..(14)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro;
     Xaa at residue 14 is Glu or gamma-carboxy-Glu.
<400> 35
Gly Cys Cys Ser His Xaa Ala Cys Asn Val Asp His Xaa Xaa Ile Cys
```

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<210> 36
 <211> 19
 <212> PRT
 <213> Conus obscurus
 <220>
 <221> SITE
 <222> (6)..(18)
 <223> Xaa at residues 6 and 15 is Pro or hydroxy-Pro;
       Xaa at reside 11 is Lys, N,-methyl-Lys,
       N, N-dimethyl-Lys or N, N, N-trimethyl-Lys; Xaa at
       residues 14 and 18 is Glu or gamma-carboxy-Glu.
<400> 36
Gly Cys Cys Ser His Xaa Ala Cys Ser Gly Xaa Thr Gln Xaa Xaa Cys
                                       10
Arg Xaa Ser
<210> 37
<211> 18
<212> PRT
<213> Conus tulipa
<220>
<221> SITE
<222> (1)..(14)
<223> Xaa at residues 1, 6 and 13 is Pro or hydroxy-Pro;
      Xaa at residue 14 is Glu or gamma-carboxy-Glu.
<400> 37
Xaa Cys Cys Ser His Xaa Ala Cys Ser Gly Asn Asn Xaa Xaa Phe Cys
                                       10
Arg Gln
<210> 38
<211> 18
<212> PRT
<213> Conus tulipa
<220>
<221> SITE
<222> (6)..(14)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro;
      Xaa at residue 14 is Glu or gamma-carboxy-Glu.
<400> 38
Gly Cys Cys Ser His Xaa Ala Cys Ser Gly Asn Asn Xaa Xaa Phe Cys
Arg Gln
<210> 39
<211> 16
<212> PRT
<213> Conus pennaceus
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<220>
<221> SITE
<222> (6)..(15)
<223> Xaa at residues 6, 7 and 13 is Pro or hydroxy-Pro;
    Xaa at residue 15 is Tyr, nor-Tyr, mono-halo-Tyr,
       di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
       nitro-Tyr.
<400> 39
Gly Cys Cys Ser His Xaa Xaa Cys Ala Met Asn Asn Xaa Asp Xaa Cys
<210> 40
<211> 16
<212> PRT
<213> Conus pennaceus
<220>
<221> SITE
<222> (6)..(15)
<223> Xaa at residuew 6, 7 and 13 is Pro or hydroxy-Pro; Xaa at residue 15 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr.
<400> 40
Gly Cys Cys Ser His Xaa Xaa Cys Phe Leu Asn Asn Xaa Asp Xaa Cys
                                          10
                                                                 15
<210> 41
<211> 17
<212> PRT
<213> Conus textile
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6, 7 and 13 is Pro or hydroxy-Pro;
      Xaa at residue 11 is Lys, N-methyl-Lys,
      N, N-dimethyl-Lys or N.N.N-trimethyl-Lys.
<400> 41
Gly Cys Cys Ser Asn Xaa Xaa Cys Ile Ala Xaa Asn Xaa His Met Cys
                                          10
                                                                 15
Gly
<210> 42
<211> 16
<212> PRT
<213> Conus distans
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6, 7 and 13 is Pro or hydroxy-Pro.
<400> 42
Gly Cys Cys Ser Asn Xaa Xaa Cys Ala His Asn Asn Xaa Asp Cys Arg
                                                                 15
```

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<210> 43
<211> 17
<212> PRT
<213> Conus tulipa
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro.
<400> 43
Gly Cys Cys Ser Asn Xaa Ala Cys Ala Gly Asn Asn Xaa His Val Cys
Arg
<210> 44
<211> 16
<212> PRT
<213> Conus dalli
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro.
Gly Cys Cys Ser Arg Xaa Ala Cys Ile Ala Asn Asn Xaa Asp Leu Cys
<210> 45
<211> 20
<212> PRT
<213> Conus circumcisus
<220>
<221> SITE
<222> (6)..(14)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro;
     Xaa at residues 11 and 14 is Glu or
      gamma-carboxy-Glu.
Gly Cys Cys Ser Asn Xaa Val Cys His Val Xaa His Xaa Xaa Leu Cys
                                      10
Arg Arg Arg Arg
<210> 46
<211> 18
<212> PRT
<213> Conus sulcatus
<220>
<221> SITE
<222> (7)..(15)
<223> Xaa at residues 7, 12 and 14 is Pro or
     hydroxy-Pro; Xaa at residue 11 is Lys,
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```
N-methyl-Lys, N, N-dimethyl-Lys or
      N, N, N-trimethyl-Lys; Xaa at residue 15 is Glu or
<220>
<221> SITE
<222> (7)..(15)
<223> gamma-carboxy-Glu.
<400> 46
Gly Gly Cys Cys Ser Phe Xaa Ala Cys Arg Xaa Xaa Arg Xaa Xaa Met
                                      10,
Cys Gly
<210> 47
<211> 18
<212> PRT
<213> Conus textile
<220>
<221> SITE
<222> (1)..(15)
<223> Xaa at residues 1, 7 and 14 is Pro or hydroxy-Pro;
      Xaa at residues 2 and 15 is Glu or
      gamma-carboxy-Glu.
<400> 47
Xaa Xaa Cys Cys Ser Asp Xaa Arg Cys Asn Ser Ser His Xaa Xaa Leu
                                      10
                                                          15
Cys Arg
<210> 48
<211> 18
<212> PRT
<213> Conus dalli
<220>
<221> SITE
<222> (1) .. (15)
<223> Xaa at residues 1, 7 and 14 is Pro or hydroxy-pro;
     Xaa at residue 15 is Glu or gamma-carboxy-Glu.
<400> 48
Xaa Gln Cys Cys Ser Asp Xaa Arg Cys Asn Val Gly His Xaa Xaa Leu
Cys Gly
<210> 49
<211> 18
<212> PRT
<213> Conus dalli
<220>
<221> SITE
<222> (1)..(15)
<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at
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residues 7 and 14 is Pro or hydroxy-Pro; Xaa at residue 15 is Glu or gamma-carboxy-Glu.

```
Xaa Val Cys Cys Ser Asp Xaa Arg Cys Asn Val Gly His Xaa Xaa Ile
                                      10
Cys Gly
<210> 50
<211> 16
<212> PRT
<213> Conus textile
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6, 7 and 13 is Pro or hydroxy-Pro.
<400> '50
Gly Cys Cys Ser Arg Xaa Xaa Cys Ile Ala Asn Asn Xaa Asp Leu Cys
                                     :10
<210> .51
<211> 18
<212> PRT
<213> Conus omaria
<220>
<221> SITE
<222> (1)..(15)
<223> Xaa at residues 1 and 14 is Pro or hydroxy-Pro;
      Xaa at residue 15 is Glu or gamma-carboxy-Glu.
<400> 51
Xaa Gln Cys Cys Ser His Leu Ala Cys Asn Val Asp His Xaa Xaa Ile
. 1
Cys Arg
<210> 52
<211> 19
<212> PRT
<213> Conus sulcatus
<220>
<221> SITE
<222> (5)..(14)
<223> Xaa at residue 5 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr; Xaa at residue 13 is Pro or
      hydroxy-Pro; Xaa at residue 14 is Glu or
<220>
<221> SITE
<222> (14)..(18)
<223> gamma-carboxy-Glu; Xaa at residue 18 is Trp or
      halo-Trp.
```

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<400> 52
Gly Cys Cys Ser Xaa Phe Asp Cys Arg Met Met Phe Xaa Xaa Met Cys
                                        10
Gly Xaa Arg
<210> 53
<211> 18
<212> PRT
<213> Conus sulcatus
<220>
<221> SITE
<222> (11)..(12)
<223> Xaa at residue 11 is Lys, N-methyl-Lys,
      N, N-dimethyl-Lys or N, N, N-trimethyl-Lys; Xaa at
      residue 12 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
<220>
<221> SITE
<222> (12)..(15)
<223> nitro-Tyr; Xaa at residue 14 is Pro or hydroxy-
      Pro; Xaa at residue 15 is Glu or gamma-carboxy-
<400> 53
Gly Gly Cys Cys Ser Phe Ala Ala Cys Arg Xaa Xaa Arg Xaa Xaa Met
Cys Gly
<210> 54
<211> 20
<212> PRT
<213> Conus sulcatus
<220>
<221> SITE
<222> (7)..(15)
<223> Xaa at residue 7 is Pro or hydroxy-Pro; Xaa at
      residue 10 is Tyr, nor-Tyr, mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr; Xaa at residue 15 is Glu or
<220>
<221> SITE
<222> (7)..(15)
<223> gamma-carboxy-Glu.
<400> 54
Gly Gly Cys Cys Phe His Xaa Val Cys Xaa Ile Asn Leu Leu Xaa Met
Cys Arg Gln Arg
              20
<210> 55
<211> 19
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<212> PRT
<213> Conus betulinus
<220>
<221> SITE
<222> (7)..(15)
<223> Xaa at residues 7, 11 and 14 is Tyr, nor-Tyr,
      mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr; Xaa at residues 8, 9 and 15 is Pro
      or hydroxy-Pro.
<220>
<221> SITE
<222> (12)..(16)
<223> Xaa at residues 12 and 16 is Glu or
   gamma-carboxy-Glu.
<400> 55
Ser Ala Thr Cys Cys Asn Xaa Xaa Xaa Cys Xaa Xaa Thr Xaa Xaa Xaa
                   5
Ser Cys Leu
<210> 56
<211> 17
<212> PRT
<213> Conus betulinus
<220>
<221> SITE
<222> (5)..(13)
<223> Xaa at residues 5 and 12 is Tyr, no-Tyr,
      mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,
      O-phospho-Tyr or nitro-Tyr; Xaa at residues 6, 7
     and 13 is Pro or hydroxy-Pro.
<220>
<221> SITE
<222> (10)..(14)
<223> Xaa at residues 10 and 14 is Glu or
      gamma-carboxy-Glu.
<400> 56
Ala Cys Cys Ala Xaa Xaa Xaa Cys Phe Xaa Ala Xaa Xaa Arg Cys
                                       10
Leu
<210> 57
<211> 19
<212> PRT
<213> Conus betulinus
<220>
<221> SITE
<222> (3)..(16)
<223> Xaa at residues 3, 12 and 16 is Glu or
      gamma-carboxy-Glu; Xaa at residues 6, 7, 11 and 14
      is Tyr, nor-Tyr, mono-halo-Tyr, di-halo-Tyr,
      O-sulpho-Tyr, O-phospho-Tyr or nitro-Tyr.
```

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<220>
<221> SITE
<222> (8)..(15)
<223> Xaa at residues 8, 9 and 15 is Pro or hydroxy-Pro.
<400> 57
Asn Ala Xaa Cys Cys Xaa Xaa Xaa Cys Xaa Xaa Ala Xaa Xaa
                                     10
Ile Cys Leu
<210> 58
<211> 227
<212> DNA
<213> Conus magus
<220>
<221> CDS
<222> (1)..(189)
<400> 58
atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc act gtc gtt tcc
                                                                   48
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
                                     10
                                                         15
tto oot toa gat ogt goa tot gat ggo agg aat goo goa goo aac gao
Phe Pro Ser Asp Arg Ala Ser Asp Gly Arg Asn Ala Ala Asn Asp
             20
aaa gcg tct gac gtg atc acg ctg gcc ctc aag gga tgc tgt tcc aac
                                                                   144
Lys Ala Ser Asp Val Ile Thr Leu Ala Leu Lys Gly Cys Cys Ser Asn
         3.5
                             40
cct gtc tgt cac ttg gag cat tca aac ctt tgt ggt aga aga cgc
                                                                   189
Pro Val Cys His Leu Glu His Ser Asn Leu Cys Gly Arg Arg Arg
tgatgctcca ggaccctctg aaccacgacg ttcgagca
                                                                   227
<210> 59
<211> 63
<212> PRT
<213> Conus magus
<400> 59
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
                                     10
Phe Pro Ser Asp Arg Ala Ser Asp Gly Arg Asn Ala Ala Asn Asp
Lys Ala Ser Asp Val Ile Thr Leu Ala Leu Lys Gly Cys Cys Ser Asn
Pro Val Cys His Leu Glu His Ser Asn Leu Cys Gly Arg Arg Arg
                         55
     50
<210> 60
<211> 208
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<212> DNA

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<213> Conus aulicus
<220>
<221> CDS
<222> (1)..(168)
<400> 60
atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc acc gtc gtt tcc
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
                                                                       48
                                        10
ttc act tca gat cgt gca tct gat ggc agg aag gac gca gcg tct ggc
                                                                       96
Phe Thr Ser Asp Arg Ala Ser Asp Gly Arg Lys Asp Ala Ala Ser Gly
                                   25
ctg atc gct ctg acc atc aag gga tgc tgt tct tat cct ccc tgt ttc
                                                                       144
Leu Ile Ala Leu Thr Ile Lys Gly Cys Cys Ser Tyr Pro Pro Cys Phe
                               40
gcg act aat tca gac tat tgt ggt tgacgacgct gatgctccag gaccctctga
Ala Thr Asn Ser Asp Tyr Cys Gly
accacgacgt
                                                                       208
<210> 61
<211> 56
<212> PRT
<213> Conus aulicus
<400> 61
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
Phe Thr Ser Asp Arg Ala Ser Asp Gly Arg Lys Asp Ala Ala Ser Gly
Leu Ile Ala Leu Thr Ile Lys Gly Cys Cys Ser Tyr Pro Pro Cys Phe
Ala Thr Asn Ser Asp Tyr Cys Gly
     50
<210> 62
<211> 205
<212> DNA
<213> Conus aulicus
<220>
<221> CDS
<222> (1)..(174)
<400> 62
atg ttc acc gtg ttt ctg ttg gtc gtc ttg gca acc acc gtc gtt tcc
                                                                       48
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
ttc act tca gat cgt gca tct gat ggc agg aag gac gca gcg tct ggc
                                                                       96
Phe Thr Ser Asp Arg Ala Ser Asp Gly Arg Lys Asp Ala Ala Ser Gly
              20
```

ctg att gct ctg acc atg aag gga tgc tgt tct tat cct ccc tgt ttc

```
Leu Ile Ala Leu Thr Met Lys Gly Cys Cys Ser Tyr Pro Pro Cys Phe
         35
gcg act aat cca gac tgt ggt cga cgc tgatgctcca ggaccctctg
                                                                   194
Ala Thr Asn Pro Asp Cys Gly Arg Arg Arg
aaccacgacg t
                                                                  . 205
<210> 63
<211> 58
<212> PRT
<213> Conus aulicus
<400> 63
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
Phe Thr Ser Asp Arg Ala Ser Asp Gly Arg Lys Asp Ala Ala Ser Gly
Leu Ile Ala Leu Thr Met Lys Gly Cys Cys Ser Tyr Pro Pro Cys Phe
Ala Thr Asn Pro Asp Cys Gly Arg Arg Arg
<210> 64
<211> 223
<212> DNA
<213> Conus textile
<220>
<221> CDS
<222> (1)..(192)
<400> 64
atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc acc gtc gtt tcc
                                                                   48
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
tto tot toa ggt ogt agt aca ttt ogt ggo agg aat goo goa goo aaa
                                                                   96
Phe Ser Ser Gly Arg Ser Thr Phe Arg Gly Arg Asn Ala Ala Lys
gcg tct ggc ctg gtc agt ctg act gac agg aga cca gaa tgc tgt agt
                                                                   144
Ala Ser Gly Leu Val Ser Leu Thr Asp Arg Arg Pro Glu Cys Cys Ser
gat cet ege tgt aac teg agt eat eea gaa ett tgt ggt gga aga ege
                                                                   192
Asp Pro Arg Cys Asn Ser Ser His Pro Glu Leu Cys Gly Gly Arg Arg
tgatgctcca ggaccctctg aaccacgacg t
                                                                   223
<210> 65
<211> 64
<212> PRT
<213> Conus textile
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<400> 65

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Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
Phe Ser Ser Gly Arg Ser Thr Phe Arg Gly Arg Asn Ala Ala Lys
Ala Ser Gly Leu Val Ser Leu Thr Asp Arg Arg Pro Glu Cys Cys Ser
                             40
Asp Pro Arg Cys Asn Ser Ser His Pro Glu Leu Cys Gly Gly Arg Arg
<210> 66
<211> 244
<212> DNA
<213> Conus textile
<220>
<221> CDS
<222> (1)..(168)
<400> 66
atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc gcc gtc gtt tcc
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Ala Val Val Ser
                                     10
                                                          15
tto act toa gat ogt goa tot gat gao ggg aaa goo got gog tot gao
                                                                   96
Phe Thr Ser Asp Arg Ala Ser Asp Asp Gly Lys Ala Ala Ala Ser Asp
ctg atc act ctg acc atc aag gga tgc tgt tct cgt cct ccc tgt atc
                                                                   144
Leu Ile Thr Leu Thr Ile Lys Gly Cys Cys Ser Arg Pro Pro Cys Ile
                             40
         35
gcg aat aat cca gac ttg tgt ggt tgacgacgct gatgctccag aacqqtctqa
Ala Asn Asn Pro Asp Leu Cys Gly
accacqacqt tcqaqcaatq ttcaccqtqt ttctqttqqt tqtctt
                                                                   244
<210> 67
<211> 56
<212> PRT
<213> Conus textile
<400> 67
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Ala Val Val Ser
Phe Thr Ser Asp Arg Ala Ser Asp Asp Gly Lys Ala Ala Ala Ser Asp
Leu Ile Thr Leu Thr Ile Lys Gly Cys Cys Ser Arg Pro Pro Cys Ile
Ala Asn Asn Pro Asp Leu Cys Gly
     50
<210> 68
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<211> 223 <212> DNA

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<213> Conus textile
<220>
<221> CDS
<222> (1)..(183)
<400> 68
atg tto acc gtg ttt ctg ttg gtt gtc ttg gca acc acc gtc gtt tcc
                                                                   48
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
                                      10
ttc act tca ggt cgt agt aca ttt cgt ggc agg aat gcc gca gcc aaa
                                                                   96
Phe Thr Ser Gly Arg Ser Thr Phe Arg Gly Arg Asn Ala Ala Ala Lys
gog tot ggo otg gto agt otg act gao agg aga coa caa tgo tgt tot
                                                                   144
Ala Ser Gly Leu Val Ser Leu Thr Asp Arg Arg Pro Gln Cys Cys Ser
                              40
cat cct gcc tgt aac gta gat cat cca gaa att tgt cgt tgaagacgct
                                                                   193
His Pro Ala Cys Asn Val Asp His Pro Glu Ile Cys Arg
gatgetecag gaccetetga accaegaegt
                                                                   223
<210> 69
<211> 61
<212> PRT
<213> Conus textile
<400> 69
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
Phe Thr Ser Gly Arg Ser Thr Phe Arg Gly Arg Asn Ala Ala Lys
Ala Ser Gly Leu Val Ser Leu Thr Asp Arg Arg Pro Gln Cys Cys Ser
His Pro Ala Cys Asn Val Asp His Pro Glu Ile Cys Arg
                         55
<210> 70
<211> 223
<212> DNA
<213> Conus radiatus
<220>
<221> CDS
<222> (1)..(183)
<400> 70
atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc acc gtc gtt tcc
                                                                   48
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
tto act toa ggt ogt ogt aca ttt cat ggo agg aat goo goa goo aaa
Phe Thr Ser Gly Arg Arg Thr Phe His Gly Arg Asn Ala Ala Ala Lys
             20
gcg tct ggc ctg gtc agt ctg act gac agg aga cca gaa tgc tgt tct
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Ala	Ser	Gly 35	Leu	Val	Ser	Leu	Thr 40	Asp	Arg	Arg	Pro	Glu 45	·Cys	Cys	Ser	
cat His	cct Pro 50	gcc Ala	tgt Cys	aac Asn	gta Val	gat Asp 55	cat His	cca Pro	gaa Glu	att Ile	tgt Cys 60	cgt Arg	tga	agac	gct	193
gatgctccag gaccctctga accacgacgt 22															223	
<210> 71 <211> 61 <212> PRT <213> Conus radiatus																
	)> 7] Phe		Val	Phe 5	Leu	Leu	Val	Val	Leu 10	Ala	Thr	Thr	Val	Val 15	Ser	
Phe	Thr	Ser	Gly 20		Arg	Thr	Phe	His 25	Gly	Arg	Asn	Ala	Ala 30	Ala	Lys	
Ala	Ser	Gly 35	Leu	Val	Ser	Leu	Thr 40		Arg	Arg	Pro	Glu 45	Cys	Cys	Ser	
His	Pro 50	Ala	Cys	Asn	Val	Asp 55	His	Pro	Glu	Ile	Cys 60	Arg				
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ttc Phe	act Thr	tca Ser	ggt Gly 20	cgt Arg	agt Ser	aca Thr	ttt Phe	cgt Arg 25	ggc Gly	agg Arg	aat Asn	gcc Ala	gca Ala 30	gcc Ala	aaa Lys	96
gcg Ala	tct Ser	ggc Gly 35	ctg Leu	gtc Val	agt Ser	ctg Leu	act Thr 40	gac Asp	agg Arg	aga Arg	cca Pro	caa Gln 45	tgc Cys	tgt Cys	tct Ser	144
cat His	cct Pro 50	gcc Ala	tgt Cys	aac Asn	gta Val	gat Asp 55	cat His	cca Pro	gaa Glu	att Ile	tgc Cys 60	gat Asp	tgaa	agaco	gct	193
gatg	gatgctccag gaccctctga accacgacgt														223	
<211 <212	<210> 73 <211> 61 <212> PRT <213> Conus radiatus															
<400	> 73															

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Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
Phe Thr Ser Gly Arg Ser Thr Phe Arg Gly Arg Asn Ala Ala Lys
Ala Ser Gly Leu Val Ser Leu Thr Asp Arg Arg Pro Gln Cys Cys Ser
His Pro Ala Cys Asn Val Asp His Pro Glu Ile Cys Asp
                         55
<210> 74
<211> 218
<212> DNA
<213> Conus striatus
<220>
<221> CDS
<222> (1)..(171)
<400> 74
atg ttc act gtg ttt ctg ttg gtt gtc ttg gca atc act gtc gtt tcc
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Ile Thr Val Val Ser
tto cèt tta gat ogt gaa tot gat ggo gog aat goo gaa goo ogo aco
                                                                   96
Phe Pro Leu Asp Arg Glu Ser Asp Gly Ala Asn Ala Glu Ala Arg Thr
             20
                                 25
cac gat cat gag aag cac gca ctg gac cgg aat gga tgc tgt agg aat
His Asp His Glu Lys His Ala Leu Asp Arg Asn Gly Cys Cys Arg Asn
                             40
cct gcc tgt gag agc cac aga tgt ggt tgacgacgct gatgctccag
                                                                   191
Pro Ala Cys Glu Ser His Arg Cys Gly
gaccetetga accaegaegt tegagea
                                                                   218
<210> 75
<211> 57
<212> PRT
<213> Conus striatus
<400> 75
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Ile Thr Val Val Ser
Phe Pro Leu Asp Arg Glu Ser Asp Gly Ala Asn Ala Glu Ala Arg Thr
His Asp His Glu Lys His Ala Leu Asp Arg Asn Gly Cys Cys Arg Asn
Pro Ala Cys Glu Ser His Arg Cys Gly
     50
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<210> 76 <211> 227 <212> DNA

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<213> Conus bandanus
<220>
<221> CDS
<222> (1)..(180)
.<400> 76
atg ttc acc atg ttt ctg ttg gtt gtc ttg gca acc act gtc gtt tcc
                                                                    48
Met Phe Thr Met Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
                                      10
tte get tea gat egt gea tet gat gge agg aat gee gea gee aag gae
                                                                   96
Phe Ala Ser Asp Arg Ala Ser Asp Gly Arg Asn Ala Ala Ala Lys Asp
             20
                                  25
aaa gcg tct gac ctg gtc gct ctg acc gtc aag gga tgc tgt tct cat
                                                                   144
Lys Ala Ser Asp Leu Val Ala Leu Thr Val Lys Gly Cys Cys Ser His
cct gcc tgt agc gtg aat aat cca gac att tgt ggt tgaagacgct
                                                                   190
Pro Ala Cys Ser Val Asn Asn Pro Asp Ile Cys Gly
     50
                         55
                                                                   227
gatgctccag gaccctctga accacgacgt tcgagca
<210> 77
<211> 60
<212> PRT
<213> Conus bandanus
<400> 77
Met Phe Thr Met Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
Phe Ala Ser Asp Arg Ala Ser Asp Gly Arg Asn Ala Ala Lys Asp
Lys Ala Ser Asp Leu Val Ala Leu Thr Val Lys Gly Cys Cys Ser His
                             40
Pro Ala Cys Ser Val Asn Asn Pro Asp Ile Cys Gly
     50
<210> 78
<211> 104
<212> DNA
<213> Conus bandanus
<220>
<221> CDS
<222> (1)..(54)
<400> 78
aaa gaa tgc tgt act cat cct gcc tgt cac gtg agt cat cca gaa ctc
Lys Glu Cys Cys Thr His Pro Ala Cys His Val Ser His Pro Glu Leu
tgt ggt tgaaaagcga cgtgacgctc caggaccctc tgaaccacga cgttcgagca
                                                                   104
Cys Gly
```

<210> 79

```
<211> 18
<212> PRT
<213> Conus bandanus
<400> 79
Lys Glu Cys Cys Thr His Pro Ala Cys His Val Ser His Pro Glu Leu
Cys Gly
<210> 80
<211> 206
<212> DNA
<213> Conus bandanus
<220>
<221> CDS
<222> (1)..(171)
<400> 80
atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca act gct gtt ctt cca
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Ala Val Leu Pro
gtc act tta gat cgt gca tct gat gga agg aat gca gca gcc aac gcc
Val Thr Leu Asp Arg Ala Ser Asp Gly Arg Asn Ala Ala Ala Asn Ala
aaa acg cct cgc ctg atc gcg cca ttc atc agg gat tat tgc tgt cat
Lys Thr Pro Arg Leu Ile Ala Pro Phe Ile Arg Asp Tyr Cys Cys His
aga ggt ccc tgt atg gta tgg tgt ggt tgaagccgct gctgctccag
                                                                   191
Arg Gly Pro Cys Met Val Trp Cys Gly
gaccctctga accac
                                                                   206
<210> 81
<211> 57
<212> PRT
<213> Conus bandanus
<400> 81
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Ala Val Leu Pro
Val Thr Leu Asp Arg Ala Ser Asp Gly Arg Asn Ala Ala Ala Asn Ala
Lys Thr Pro Arg Leu Ile Ala Pro Phe Ile Arg Asp Tyr Cys Cys His
                             40
Arg Gly Pro Cys Met Val Trp Cys Gly
    50
<210> 82
<211> 174
<212> DNA
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<213> Conus caracteristicus

<220>

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<221> CDS
<222> (1)..(171)
<400> 82
atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc act gtg gtt tcc
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
                                      10
ttc act tca gat cgt gct tct gat ggc agg aat gcc gca gcc aac gcg
                                                                    96
Phe Thr Ser Asp Arg Ala Ser Asp Gly Arg Asn Ala Ala Ala Asn Ala
             20
                                  25
ttt gad otg atd got otg atd god agg daa aat tgd tgt agd att ood
Phe Asp Leu Ile Ala Leu Ile Ala Arg Gln Asn Cys Cys Ser Ile Pro
                              40
agc tgt tgg gag aaa tat aaa tgt agt taa
                                                                    174
Ser Cys Trp Glu Lys Tyr Lys Cys Ser
<210> 83
<211> 57
<2.12> PRT
<213> Conus caracteristicus
<400> 83
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
                                      10
Phe Thr Ser Asp Arg Ala Ser Asp Gly Arg Asn Ala Ala Asn Ala
             20
Phe Asp Leu Ile Ala Leu Ile Ala Arg Gln Asn Cys Cys Ser Ile Pro
Ser Cys Trp Glu Lys Tyr Lys Cys Ser
     50
<210> 84
<211> 219
<212> DNA
<213> Conus caracteristicus
<220>
<221> CDS
<222> (1)..(189)
atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc act gtg gtt tcc
                                                                   48
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
                                     10
ttc act tca gat cgt gcg tct gaa ggc agg aat gct gca gcc aag gac
                                                                   96
Phe Thr Ser Asp Arg Ala Ser Glu Gly Arg Asn Ala Ala Ala Lys Asp
             20
                                                      30
aaa gcg tct gac ctg gtg gct ctg aca gtc agg gga tgc tgt gcc att
Lys Ala Ser Asp Leu Val Ala Leu Thr Val Arg Gly Cys Cys Ala Ile
cgt gaa tgt cgc ttg cag aat gca gcg tat tgt ggt gga ata tac
                                                                   189
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Arg Glu Cys Arg Leu Gln Asn Ala Ala Tyr Cys Gly Gly Ile Tyr 55 tgatgctcca ggaccctctg aaccacgacg 219 <210> 85 <211> 63 <212> PRT. <213> Conus caracteristicus <400> 85 Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser Phe Thr Ser Asp Arg Ala Ser Glu Gly Arg Asn Ala Ala Ala Lys Asp Lys Ala Ser Asp Leu Val Ala Leu Thr Val Arg Gly Cys Cys Ala Ile 40 Arg Glu Cys Arg Leu Gln Asn Ala Ala Tyr Cys Gly Gly Ile Tyr 50 60<210> 86 <211> 217 <212> DNA <213> Conus tulipa <220> <221> CDS <222> (1)..(186) <400> 86 atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc act gtc gtt tcc Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser 10 ttc cct tca gat att gca act gag ggc agg aat gcc gca gcc aaa gcg 96 Phe Pro Ser Asp Ile Ala Thr Glu Gly Arg Asn Ala Ala Ala Lys Ala ttt gac ctg atá tct tcg atc gtc aag áaa gga tgc tgt tcc cat cct Phe Asp Leu Ile Ser Ser Ile Val Lys Lys Gly Cys Cys Ser His Pro gcc tgt tcg ggg aat aat cca gaa ttt tgt cgt caa ggt cgc 186 Ala Cys Ser Gly Asn Asn Pro Glu Phe Cys Arg Gln Gly Arg tgatgctcca ggaccctctg aaccacgacg t 217 <210> 87 <211> 62 <212> PRT <213> Conus tulipa <400> 87 Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser

Phe Pro Ser Asp Ile Ala Thr Glu Gly Arg Asn Ala Ala Ala Lys Ala

20 25 30

Phe Asp Leu Ile Ser Ser Ile Val Lys Lys Gly Cys Cys Ser His Pro 35 40 45

Ala Cys Ser Gly Asn Asn Pro Glu Phe Cys Arg Gln Gly Arg
50 55 60

<210> 88

<211> 217

<212> DNA

<213> Conus tulipa

<220>

<221> CDS

<222> (1)..(186)

<400> .88

atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc act gtc gtt tcc 48 Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser 1 5 10 . 15

ttc cct tca gat ata gca act gag ggc agg aat gcc gca gcc aaa gcg 96 Phe Pro Ser Asp Ile Ala Thr Glu Gly Arg Asn Ala Ala Ala Lys Ala

ttt gac ctg ata tct tcg atc gtc agg aaa gga tgc tgt tcc aat ccc  $\,$  144 Phe Asp Leu Ile Ser Ser Ile Val Arg Lys Gly Cys Cys Ser Asn Pro  $\,$  35  $\,$  40  $\,$  45

gcc tgt gcg ggg aat aat cca cat gtt tgt cgt caa ggt cgc
Ala Cys Ala Gly Asn Asn Pro His Val Cys Arg Gln Gly Arg
50
55
60

tgatgctcca ggaccctctg aaccacgacg t

217

<210> 89

<211> 62

<212> PRT

<213> Conus tulipa

<400> 89

Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser 1 5 10 15

Phe Pro Ser Asp Ile Ala Thr Glu Gly Arg Asn Ala Ala Ala Lys Ala 20 25 30

Phe Asp Leu Ile Ser Ser Ile Val Arg Lys Gly Cys Cys Ser Asn Pro 35 40 45

Ala Cys Ala Gly Asn.Asn Pro His Val Cys Arg Gln Gly Arg
50 55 60

<210> 90

<211> 226

<212> DNA

<213> Conus sulcatus

<220>

<221> CDS

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<222> (1)..(195)
<400> 90
atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc acc gtc gtt tcc
                                                                   48
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
                                      10
ttc aat tca gat cgt gat cca gca tta ggt ggc agg aat gct gca gcc
                                                                   96
Phe Asn Ser Asp Arg Asp Pro Ala Leu Gly Gly Arg Asn Ala Ala Ala
                                  25
aaa gcg tct gac aag atc gct tcg acc ctc aag aga aga gga tgc tgt
                                                                   144
Lys Ala Ser Asp Lys Ile Ala Ser Thr Leu Lys Arg Gly Cys Cys
                              40
tcg tat ttt gac tgt aga atg atg ttt cca gaa atg tgt ggt tgg cga-
                                                                   192
Ser Tyr Phe Asp Cys Arg Met Met Phe Pro Glu Met Cys Gly Trp Arg
                                              60
ggc tgatgctcca ggaccctctg aaccacgacg t
                                                                   226
Gly
 65
<210> 91
<211> 65
<212> PRT
<213> Conus sulcatus
<400> 91
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
                  5:
Phe Asn Ser Asp Arg Asp Pro Ala Leu Gly Gly Arg Asn Ala Ala Ala
Lys Ala Ser Asp Lys Ile Ala Ser Thr Leu Lys Arg Arg Gly Cys Cys
                             40
Ser Tyr Phe Asp Cys Arg Met Met Phe Pro Glu Met Cys Gly Trp Arg
     50
                         55
Gly
<210> 92
<211> 226
<212> DNA
<213> Conus sulcatus
<220>
<221> CDS
<222> (1)..(195)
<400> 92
atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc acc gtc gtt tcc
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
ttc aat tca gat cgt gat cca gca tta ggt ggc agg aat gct gca gcc
Phe Asn Ser Asp Arg Asp Pro Ala Leu Gly Gly Arg Asn Ala Ala
                                 25
```

ata Ile	gcg Ala	tct Ser 35	gac Asp	aag Lys	atc Ile	gct Ala	tcg Ser 40	acc Thr	ctc Leu	agg Arg	aga Arg	gga Gly 45	gga Gly	tgc Cys	tgt Cys	144
tct Ser	ttt Phe 50	cct Pro	gcc Ala	tgt Cys	aga Arg	aag Lys 55	tat Tyr	cgt Arg	cca Pro	gaa Glu	atg Met 60	tgt Cys	ggt Gly	gga Gly	cga Arg	192
cgc Arg 65	tgat	gct	cca (	ggac	cctci	tg a	acca	cgac	g t	•						226
<210 <211 <212 <213	> 65 > PF	S RT	sulo	catu	S										·	
<400 Met			Val	Phe 5	Leu	Leu	Val	Val	Leu 10	Ala	Thr	Thr	Val	Val 15	Ser	·
Phe	Asn	Ser	Asp 20	Arg	Asp	Pro	Ala	Leu 25	Gly	Gly	Arg	Asn	Ala 30	Ala	Ala	
Ile i	Ala	Ser 35	Asp	Lys	Ile	Ala	Ser 40	Thr	Leu	Arg	Arg	Gly 45	Gly	Cys	Cys	
Ser 1	Phe 50	Pro	Ala	Cys	Arg	Lys 55	Tyr	Arg	Pŗo	Glu	Met 60	Cys	Gly	Gly	Arg	
Arg 65																
<2102 <2112 <2122 <2132	> 21 > DN	1  A	sulo	catus	5											
<2202 <2212 <2222	> CD		180)		·							,				
<4000 atg t Met I	ttc	acc Thr	gtg Val	ttt Phe 5	ctg Leu	ttg Leu	gtt Val	gtc Val	ttg Leu 10	gca Ala	acc Thr	acc Thr	gtc Val	gtt Val 15	tcc Ser	48
ttc a	act Thr	tca Ser	gat Asp 20	cat His	gaa Glu	tct Ser	gat Asp	cgc Arg 25	ggt Gly	gat Asp	gcc Ala	caa Gln	acc Thr 30	atc Ile	caa Gln	96
gaa q Glu \	gtg Val	ttt Phe 35	gag Glu	atg Met	ttc Phe	gct Ala	ctg Leu 40	gac Asp	agc Ser	gat Asp	gga Gly	tgc Cys 45	tgt Cys	tgg Trp	cat His	144
cct o	gct Ala 50	tgt Cys	ggc Gly	aga Arg	cac His	tat Tyr 55	tgt Cys	ggt Gly	cga Arg	aga Arg	cgc Arg 60	tgat	gcto	ca		190
ggaco	cctc	tg a	acca	cgac	g t											211

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<210> 95 '
<211> 60
<212> PRT
<213> Conus sulcatus
<400> 95
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
                                      10
Phe Thr Ser Asp His Glu Ser Asp Arg Gly Asp Ala Gln Thr Ile Gln
Glu Val Phe Glu Met Phe Ala Leu Asp Ser Asp Gly Cys Cys Trp His
Pro Ala Cys Gly Arg His Tyr Cys Gly Arg Arg
                         55.
<210> 96
<211> 202
<212> DNA-
<213> Conus sulcatus
<220>
<221> CDS
<222> (1)..(195)
<400> 96
atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc acc gtc gtt tcc
                                                                   48
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
                  5
                                      10
ttc aat tca gat cgt gat cca gca tta ggt ggc agg aat gct gca gcc
                                                                   96
Phe Asn Ser Asp Arg Asp Pro Ala Leu Gly Gly Arg Asn Ala Ala Ala
            . 20
ata gcg tct gac aag atc gct tcg acc ctc agg aga gga tgc tgt
                                                                   144
Ile Ala Ser Asp Lys Ile Ala Ser Thr Leu Arg Arg Gly Clys Cys
         35.
                             40
tct ttt gct gcc tgt aga aag tat cgt cca gaa atg tgt ggt gga cga
                                                                   192
Ser Phe Ala Ala Cys Arg Lys Tyr Arg Pro Glu Met Cys Gly Gly Arg
cgc tgatgct
                                                                   202
Arg
 65
<210> 97
<211> 65
<212> PRT
<213> Conus sulcatus
<400> 97
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
Phe Asn Ser Asp Arg Asp Pro Ala Leu Gly Gly Arg Asn Ala Ala Ala
Ile Ala Ser Asp Lys Ile Ala Ser Thr Leu Arg Arg Gly Gly Cys Cys
```

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Ser Phe Ala Ala Cys Arg Lys Tyr Arg Pro Glu Met Cys Gly Gly Arg
Arg
 65
<210> 98
<211> 220
<212> DNA
<213> Conus sulcatus
<220>
<221> CDS
<222> (1)..(189)
<400> 98
atg tte acc gtg ttt ctg ttg gtt ctc ttg gca acc acc gtc gtt tcc
Met Phe Thr Val Phe Leu Leu Val Leu Leu Ala Thr Thr Val Val Ser
                                      10
ttc aat tca gat cgt gca tta ggt ggc agg aat gct gca gcc aaa gcg
Phe Asn Ser Asp Arg Ala Leu Gly Gly Arg Asn Ala Ala Ala Lys Ala
tot gao aag ato ott tog aac oto agg aga gga gga tgo tgt ttt cat
Ser Asp Lys Ile Leu Ser Asn Leu Arg Arg Gly Gly Cys Cys Phe His
cct gtc tgt tac atc aat ctt cta gaa atg tgt cgt caa cga ggc
Pro Val Cys Tyr Ile Asn Leu Leu Glu Met Cys Arg Gln Arg Gly
                                                                    220
tgatcgtcca ggaccctctg aaccacgacg t
<210> 99
<211> 63
<212> PRT
<213> Conus sulcatus
<400> 99
Met Phe Thr Val Phe Leu Leu Val Leu Leu Ala Thr Thr Val Val Ser
                                      10
Phe Asn Ser Asp Arg Ala Leu Gly Gly Arg Asn Ala Ala Ala Lys Ala
Ser Asp Lys Ile Leu Ser Asn Leu Arg Arg Gly Gly Cys Cys Phe His
                              40
Pro Val Cys Tyr Ile Asn Leu Leu Glu Met Cys Arg Gln Arg Gly
     50
                         55
<210> 100
<211> 208
<212> DNA
<213> Conus consors
<220>
<221> CDS
<222> (1)..(177)
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<400> 100
atg ttc acc gtg ttt ctg ttg gtt gtc ttg aca acc act gtc gtt tcc
Met Phe Thr Val Phe Leu Leu Val Val Leu Thr Thr Val Val Ser
                                     10
ttc cct tca gat agt gca tct gat gtc agg gat gac gaa gcc aaa gac
                                                                   96
Phe Pro Ser Asp Ser Ala Ser Asp Val Arg Asp Asp Glu Ala Lys Asp
             20
                                 25
gaa agg tot gac atg tac aaa tog aaa ogg aat gga ogo tgt tgo cat
Glu Arg Ser Asp Met Tyr Lys Ser Lys Arg Asn Gly Arg Cys Cys His
                             40
cct gcc tgt ggc aaa cac ttt agt tgt gga cgc tgatgctcca ggaccctctg 197
Pro Ala Cys Gly Lys His Phe Ser Cys Gly Arg
aaccacgacg t
                                                                   208
<210> 101
<211> 59
<212> PRT
<213> Conus consors
<400> 101
Met Phe Thr Val Phe Leu Leu Val Val Leu Thr Thr Val Val Ser
Phe Pro Ser Asp Ser Ala Ser Asp Val Arg Asp Asp Glu Ala Lys Asp
Glu Arg Ser Asp Met Tyr Lys Ser Lys Arg Asn Gly Arg Cys Cys His
         35
                             40
Pro Ala Cys Gly Lys His Phe Ser Cys Gly Arg
     50
<210> 102
<211> 219
<212> DNA
<213> Conus stercusmuscarum
<220>
<221> CDS
<222> (1)..(189)
atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc act gtc gtt tcc
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
tcc cct tca gat cgt gca tct gat ggc agg aat gcc gca gcc aac gag
                                                                   96
Ser Pro Ser Asp Arg Ala Ser Asp Gly Arg Asn Ala Ala Asn Glu
aaa gcg tct gac gtg atc gcg ctg gcc ctc aag gga tgc tgt tcc aac
                                                                   144
Lys Ala Ser Asp Val Ile Ala Leu Ala Leu Lys Gly Cys Cys Ser Asn
                             40
cct gtc tgt cac ctg gag cat tca aac atg tgt ggt aga aga cgc
                                                                   189
Pro Val Cys His Leu Glu His Ser Asn Met Cys Gly Arg Arg Arg
```

```
tgatgctcca ggaccctctg aaccacgacg
```

219

```
<210> 103
<211> 63
<212> PRT
<213> Conus stercusmuscarum
<400> 103
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
                                      10
Ser Pro Ser Asp Arg Ala Ser Asp Gly Arg Asn Ala Ala Asn Glu
Lys Ala Ser Asp Val Ile Ala Leu Ala Leu Lys Gly Cys Cys Ser Asn
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Ser Thr Ser Gly Gly Ala Ser Gly Gly Arg Lys Ala Ala Ala Lys Ala
tct aac cgg atc gct ctg acc gtc agg agt gca aca tgc tgt aat tat
                                                                   144
Ser Asn Arg Ile Ala Leu Thr Val Arg Ser Ala Thr Cys Cys Asn Tyr
         35
cct ccc tgt tac gag act tat cca gaa agt tgt ctg taacgtgaat
                                                                   190
Pro Pro Cys Tyr Glu Thr Tyr Pro Glu Ser Cys Leu
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			atc Ile													144
			ttc Phe									taad	cgtga	aat		190
cat	catccagacc tttgtggctg aagacgctga tgccccagga ccctctgaac cacgacgt															248
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Phe	Thr	Ser	Gly 20	Arg	Ala	Ser	Gly	Gly 25	Arg	Asn	Ala	Ala	Ala 30	Lys	Ala	
Ser	Asn	Arg 35	Ile	Ala	Met.	Ala	Ile 40	Ser	Ser	Gly	Ala	Cys 45	Cys	Ala	Tyr	
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			gat Asp 20													96
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cat His	ccc Pro 50	gcc Ala	tgt Cys	agc Ser	gtg Val	aat Asn 55	cat His	cca Pro	gag Glu	ctt Leu	tgt Cys 60	ggt Gly	aga Arg	aga Arg	cgc Arg	192

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ctg atc gct ctg acc atc Leu Ile Ala Leu Thr Ile 35				144
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accacgacg		·	:	207
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gac gag cct gag gag cac o Asp Glu Pro Glu Glu His o 35				144 -
cct gcc tgt gag agc cac a Pro Ala Cys Glu Ser His a 50		tgacgacgct gatgc	tccag	191

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acca	acgad	cg											-			207
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меt · 1	Phe	Thr	vaı	Pne 5	Leu	Leu	vaı	vai	10	АІА	Thr	Thr	vaı	15		
Phe .	Thr	Ser	Asp 20	Arg	Ala	Ser.	Asp	Ser 25	Arg	Lys	Asp	Ala	Ala 30	Ser	Gly	
Leu	Ile	Ala 35	Leu	Thr	Ile	Lys	Gly 40	Cys	Cys	Ser	Asp	Pro 45	Arg	Cys	Asn ·	
Met	Asn 50	Asn	Pro	Asp	Tyr	Cys 55	Gly			,						
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<220			•										•			
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						cag Gln										144
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Phe	Thr	Val	Asp 20	Arg	Ala	Ser	Asp	Gly 25	Arg	Asp	Val	Ala	Ile 30	Asp	Asp	
Arg	Leu	Val 35	Ser	Leu	Pro	Gln	Ile 40	Ala	His	Ala	Asp	Cys 45	Cys	Ser	Asp	
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ttc Phe	att Ile	atc Ile	gat Asp 20	gat Asp	cca Pro	tct Ser	gat Asp	ggc Gly 25	agg Arg	aat Asn	att Ile	gca Ala	gtc Val 30	gac Asp	gac Asp	96
						ctc Leu										144
						ggt Gly 55		tgat	ctt	tgt 1	tette	caaa	ga ca	actgo	ctggc	198
cca	ggaco	cct (	ctgaa	accad	cg ad	cg										221
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	0> 12 Phe		Val	Phe 5	Leu	Leu	Val	Val	Leu 10	Ala	Thr	Thr	Val	Ala 15	Ser	
Phe	Ile	Ile	Asp 20	Asp	Pro	Ser	Asp	Gly 25	Arg	Asn	Ile	Ala	Val 30	Asp	Asp	
7. ~~ ~	C1	T 011	Dho	805	Th ∽	Tou	Dho	uic	ת ז ת	7 00	Cuc	C***C	C1,,	λας	Drea	

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	aat Asn 50										tgai	gct	cca (	ggaco	cctctg	197
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	3> Cc		dall	Li			:	٠						•	•	
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Phe	Thr	Ser	Asp 20	Gly	Ala	Ser	Asp	Asp 25	Arg	Lys	Ala	Ala	Ala 30	Ser	Asp .	,
Leu	Ile	Thr 35	Leu	Thr	Ile	Lys	Gly 40	Cys	Cys	Ser	Arg	Pro 45	Pro	Cys	Ile	
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	)> .> CE ?> (1		(192)					•								
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														gcc Ala		96
			_	-		_		-					_	tgt Cys		144
														aga Arg		192

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Ala Ser Gly Leu 35	ı Val Gly	Leu Th:		g Arg	Pro Gln 45	Cys Cys	Ser						
Asp Pro Arg Cys	s Asn Val	Gly His	s Pro Glu	ı Leu	Cys Gly 60	Gly Arg	Arg						
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tcc act tca ggt Ser Thr Ser Gly 20	, Arg Ala	ttt cat Phe His	ggc agg Gly Arg 25	aat ( Asn )	gcc gca Ala Ala	gcc aaa Ala Lys 30	gcg Ala	96					
tct ggc ctg gtc Ser Gly Leu Val 35	ggt ctg Gly Leu	acc gad Thr Asp	Lys Arc	caa o Gln '	gta tgc Val Cys 45	tgt agt Cys Ser	gat Asp	144					
cct cgc tgt aac Pro Arg Cys Asn 50	gta ggt Val Gly	cat cca His Pro	gaa att Glu Ile	tgt (	ggt gga Gly Gly 60	aga cgc Arg Arg	·	189					
tgatgctcca ggac	cctctg a	accacgac	g t					220					
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cct	ctgaa	acc a	acgad	cgt												211
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	3> Cc		bull	Latus	5											
	)> 14 Phe		Val	Phe 5	Leu	Leu	Val	Val	Leu 10	Ala	Thr	Thr	Val	Val 15	Ser	
Phe	Ser	Thr	Asp 20	Asp	Glu	Ser	Asp	Gly 25	Ser	Asn	Glu	Glu	Pro 30	Ser	Ala	
Asp	Gln	Thr 35	Ala	Arg	Ser	Ser	Met 40	Asn	Arg	Ala	Pro	Gly 45	Cys	Cys	Asn	
Asn	Pro 50	Ala	Cys	Val	Lys	His 55	Arg	Cys	Gly					•		
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	cag Gln															144
	cct Pro 50										tgac	gcto	gat <u>c</u>	jetec	aggac	197

cctctgaacc acgacgt 214 <210> 143 <211> 59 <212> PRT <213> Conus bullatus <400> 143 Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser 10 Phe Ser Thr Asp Asp Glu Ser Asp Gly Ser Asn Glu Glu Pro Ser Ala Asp Gln Ala Arg Ser Ala Met Asn Arg Pro Pro Gly Cys Cys Asn Asn Pro Ala Cys Val Lys His Arg Cys Gly Gly <210> 144 <211> 208 <212> DNA <213> Conus bullatus <220> <221> CDS <222> (1)..(177) <400> 144 atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc act gtc gtt tcc 48 Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser 10 96 tto cot toa gat ogt gac tot gat ggo gog gat goo gaa goo agt gao Phe Pro Ser Asp Arg Asp Ser Asp Gly Ala Asp Ala Glu Ala Ser Asp 20 gag cct gtt gag ttc gaa agg gac gag aat gga tgc tgt tgg aat cct 144 Glu Pro Val Glu Phe Glu Arg Asp Glu Asn Gly Cys Cys Trp Asn Pro 40 tee tgt eeg agg eec aga tgt aca gga ega ege taatgeteea ggaeeetetg 197 Ser Cys Pro Arg Pro Arg Cys Thr Gly Arg Arg 208 aaccacgacg t <210> 145 <211> 59 <212> PRT <213> Conus bullatus <400> 145 Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser Phe Pro Ser Asp Arg Asp Ser Asp Gly Ala Asp Ala Glu Ala Ser Asp Glu Pro Val Glu Phe Glu Arg Asp Glu Asn Gly Cys Cys Trp Asn Pro

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Met Phe Thr Val Phe Leu Leu Val Val Phe Ala Ser Ser Val Thr Leu
                                      10
gat cgt gca tct tat ggc agg tat gcc tca ccc gtc gac aga gcg tct
                                                                    96
Asp Arg Ala Ser Tyr Gly Arg Tyr Ala Ser Pro Val Asp Arg Ala Ser
                                  25
gcc ctg atc gct cag gcc atc ctt cga gat tgc tgc tcc aat cct cct
                                                                    144
Ala Leu Ile Ala Gln Ala Ile Leu Arg Asp Cys Cys Ser Asn Pro Pro
                             40
tgt gcc cat aat aat cca gac tgt cgt taaagacgct gcttgctcca
                                                                    191
Cys Ala His Asn Asn Pro Asp Cys Arg
ggaccctctg aaccacgacg t
                                                                   212
<210> 149
<211> 57
<212> PRT
<213> Conus distans
<400> 149
Met Phe Thr Val Phe Leu Leu Val Val Phe Ala Ser Ser Val Thr Leu
                                      10
Asp Arg Ala Ser Tyr Gly Arg Tyr Ala Ser Pro Val Asp Arg Ala Ser
Ala Leu Ile Ala Gln Ala Ile Leu Arg Asp Cys Cys Ser Asn Pro Pro
Cys Ala His Asn Asn Pro Asp Cys Arg
     50
                         5.5
<210> 150
<211> 63
<212> DNA
<213> Conus textile
<220>
<221> CDS
<222> (1)..(60)
<400> 150
gga tgc tgt tct aat cct ccc tgt atc gcg aag aat cca cac atg tgt
                                                                   48
Gly Cys Cys Ser Asn Pro Pro Cys Ile Ala Lys Asn Pro His Met Cys
ggt gga aga cgc tga
                                                                   63
Gly Gly Arg Arg
             20
<210> 151
<211> 20
<212> PRT
<213> Conus textile
<400> 151
Gly Cys Cys Ser Asn Pro Pro Cys Ile Ala Lys Asn Pro His Met Cys
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1 10 15 Gly Gly Arg Arg 20 <210> 152 <211> 220 <212> DNA <213> Conus consors <220> <221> CDS <222> (1)..(189) <400> 152 atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc act gtc gtt tcc 48 Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser tte eet tea gat egt gea tet gat gge agg aat gee gea gee aac gae 96 Phe Pro Ser Asp Arg Ala Ser Asp Gly Arg Asn Ala Ala Ala Asn Asp aaa gcg tet gae gtg ate acg etg gee ete aag gga tge tgt tee aac 144 Lys Ala Ser Asp Val Ile Thr Leu Ala Leu Lys Gly Cys Cys Ser Asn 40 cct gtc tgt cac ttg gag cat tca aac ctt tgt ggt aga aga cgc 189 Pro Val Cys His Leu Glu His Ser Asn Leu Cys Gly Arg Arg Arg tgatgctcca ggaccctctg aaccacgacg t 220 <210> 153 <211> 63 <212> PRT <213> Conus consors <400> 153 Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser Phe Pro Ser Asp Arg Ala Ser Asp Gly Arg Asn Ala Ala Asn Asp Lys Ala Ser Asp Val Ile Thr Leu Ala Leu Lys Gly Cys Cys Ser Asn 35 45 Pro Val Cys His Leu Glu His Ser Asn Leu Cys Gly Arg Arg <210> 154 <211> 15 <212> PRT <213> Conus musicus <220> <221> SITE <222> (4)..(12) <223> Xaa at residues 4, 11 and 12 is Tyr, nor-Tyr,

mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,

O-phospho-Tyr or nitro-Tyr. Xaa at residue 6 is Pro or hydroxy-Pro. <220> <221> SITE <222> (9)..(15) <223> Xaa at residues 9, 10 and 15 is Lys, N-methyl-Lys, N, N-dimethyl-Lys or N, N, N-trimethyl-Lys; Xaa at residue 14 is Trp (D or L) or halo-Trp. <400> 154 Gly Cys Cys Xaa Asn Xaa Val Cys Xaa Xaa Xaa Cys Xaa Xaa <210> 155 <211> 16 <212> PRT <213> Conus purpurascens <220> <221> SITE <222> (1)..(3) <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 2 is Glu or gamma-carboxy-Glu; Xaa at residues 3 and 9 is Pro or hydroxy-Pro. <220> <221> SITE <222> (13) <223> Xaa at residue 13 is Lys, N-methyl-Lys, N, N-dimethyl-Lys or N, N, N-trimethyl-Lys. Xaa Xaa Xaa Gly Cys Cys Arg His Xaa Ala Cys Gly Xaa Asn Arg Cys . 10 <210> 156 <211> 13 <212> PRT <213> Conus musicus <220> <221> SITE <222> (5)..(11) <223> Xaa at residues 5 and 11 is Pro or hydroxy-Pro. <400> 156 Cys Cys Ala Asp Xaa Asp Cys Arg Phe Arg Xaa Gly Cys <210> 157 <211> 17 <212> PRT <213> Conus musicus <220>

<223> Xaa at residues 4 and 13 is Tyr, nor-Tyr,

mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,

O-phospho-Tyr or nitro-Tyr; Xaa at residues 6 and

<221> SITE <222> (4)..(13)

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10 is Pro or hydroxy-Pro.
<220>
<221> SITE
<222> (9)..(17)
<223> Xaa at residues 9 and 16 is Trp (D or L) or
      halo-Trp; Xaa at residues 11 and 17 is Lys,
      N-methyl-Lys, N,N-dimethyl-Lys or
      N, N, N-trimethyl-Lys.
<400> 157
Gly Cys Cys Xaa Asn Xaa Ser Cys Xaa Xaa Xaa Thr Xaa Cys Ser Xaa
                                      10
Xaa
<210> 158
<211> 13
<212> PRT
<213> Conus musicus
<220>
<221> SITE
<222> (5)..(8)
<223> Xaa at residue 5 is Pro or hydroxy-Pro; Xaa at
    residue 8 is Lys, N-methyl-Lys, N,N-dimethyl-Lys
      or N, N, N-trimethyl-Lys.
<220>
<221> SITE
<222> (9)..(11)
<223> Xaa at residue 9 is Glu or gamma-carboxy-Glu; Xaa
      at residue 11 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr.
<400> 158
Cys Cys Ser Asn Xaa Thr Cys Xaa Xaa Thr Xaa Gly Cys
<210> 159
<211> 13
<212> PRT
<213> Conus musicus
<220>
<221> SITE
<222> (5)..(11)
<223> Xaa at residues 5 and 11 is Pro or hydroxy-Pro;
      Xaa at residue 8 is Lys, N-methyl-Lys,
      N, N-dimethyl-Lys or N, N, N-trimethyl-Lys.
<400> 159
Cys Cys Ala Asn Xaa Ile Cys Xaa Asn Thr Xaa Gly Cys
<210> 160
<211> 13
<212> PRT
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<213> Conus musicus

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<220>
<221> SITE
<222> (5)..(8)
<223> Xaa at residue 5 is Pro or hydroxy-Pro; Xaa at
      residue 8 is Lys, N-methyl-Lys, N,N-dimethyl-Lys
      or N, N, N-trimethyl-Lys.
<220>
<221> SITE
<222> (9)..(11)
<223> Xaa at residue 9 is Glu or gamma-carboxy-Glu; Xaa
      at residue 11 is Tyr, mono-halo-Tyr, di-halo-Tyr,
      O-sulpho-Tyr, O-phospho-Tyr or nitro-Tyr.
<400> 160
Cys Cys Asn Asn Xaa Thr Cys Xaa Xaa Thr Xaa Gly Cys
<210> 161
<211> 13
<212> PRT
<213> Conus musicus
<220>
<221> SITE
<222> (5)..(8)
<223> Xaa at residue 5 is Pro or hydroxy-Pro; Xaa at
      residue 8 is Lys, N-methyl-Lys, N,N-dimethyl-Lys
      or N, N, N-trimethyl-Lys.
<220>
<221> SITE
<222> (9)..(11)
<223> Xaa at residue 9 is Glu or gamma-carboxy-Glu; Xaa
      at residue 11 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr.
<400> 161
Cys Cys Ser Asn Xaa Val Cys Xaa Xaa Thr Xaa Gly Cys
<210> 162
<211> 17
<212> PRT
<213> Conus betulinus
<220>
<221> SITE
<222> (6)..(14)
<223> Xaa at residue 6 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr; Xaa at residues 7, 8 and 14 is Pro or
      hydroxy-Pro.
<220>
<221> SITE
<222> (15)
<223> Xaa at residue 15 is Lys, N-methyl-Lys,
      N, N-dimethyl-Lys or N, N, N-trimethyl-Lys.
<400> 162
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Gly Gly Cys Cys Ser Xaa Xaa Xaa Cys Ile Ala Ser Asn Xaa Xaa Cys
Gly
<210> 163
<211> 15
<212> PRT
<213> Conus lividus
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro.
<400> 163
Gly Cys Cys Ser His Xaa Val Cys Ser Ala Met Ser Xaa Ile Cys
                                      10
<210> 164
<211> 15
<212> PRT
<213> Conus musicus
<220>
<221> SITE
<222> (4)..(12)
<223> Xaa at residues 4 and 12 is Lys, N-methyl-Lys,
      N, N-dimethyl-Lys or N, N, N-trimethyl-Lys; Xaa at
      residue 6 is Pro or hydroxy-Pro.
<220>
<221> SITE
<222> (7)..(14)
<223> Xaa at residues 7 and 14 is Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr.
<400> 164
Gly Cys Cys Xaa Asn Xaa Xaa Cys Gly Ala Ser Xaa Thr Xaa Cys
                                      10
                                                           15
<210> 165
<211> 15
<212> PRT
<213> Conus omaria
<220>
<221> SITE
<222> (5)..(13)
<223> Xaa at residue 5 is Tyr, nor-Tyr, mono-halo-Tyr,
     di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
     nitro-Tyr; Xaa at residues 6, 7 and 13 is Pro or
     hydroxy-Pro.
<400> 165
Gly Cys Cys Ser Xaa Xaa Xaa Cys Phe Ala Thr Asn Xaa Asp Cys
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<210> 166
<211> 17
<212> PRT
<213> Conus radiatus
<220>
<221> SITE
<222> (6)..(14)
<223> Xaa at residue 6 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr; Xaa at residues 7, 8 and 14 is Pro or
      hydroxy-Pro.
<400> 166
Gly Gly Cys Cys Ser Xaa Xaa Cys Ile Ala Asn Asn Xaa Leu Cys
                                      10
Ala
<210> 167
<211> 17
<212> PRT
<213> Conus radiatus
<220>
<221> SITE
<222> (6)..(14)
<223> Xaa at residue 6 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr; Xaa at residues 7, 8 and 14 is Pro or
      hydroxy-Pro.
<400> 167
Gly Gly Cys Cys Ser Xaa Xaa Cys Ile Ala Asn Asn Xaa Phe Cys
                                      10
Ala
<210> 168
<211> 16
<212> PRT
<213> Conus virgo
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6, 7 and 13 is Pro or hydroxy-Pro.
<400> 168
Asp Cys Cys Ser Asn Xaa Xaa Cys Ser Gln Asn Asn Xaa Asp Cys Met
                                                          15
<210> 169
<211> 16
<212> PRT
<213> Conus virgo
<220>
<221> SITE
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<222> (6)..(13)
<223> Xaa at residues 6, 7 and 13 is Pro or hydroxy-Pro.
<400> 169
Asp Cys Cys Ser Asn Xaa Xaa Cys Ala His Asn Asn Xaa Asp Cys Arq
                                        10
                                                             15
<210> 170
<211> 20
<212> PRT
<213> Conus achatinus
<220>
<221> SITE
<222> (1)..(14)
<223> Xaa at residues 1, 11 and 14 is Glu or gamma-carboxy-Glu; Xaa at residue 6 is Pro or
      hydroxy-Pro.
<400> 170
Xaa Cys Cys Thr Asn Xaa Val Cys His Ala Xaa His Gln Xaa Leu Cys
                                        10
Ala Arg Arg Arg
              20
<210> 171
<211> 16
<212> PRT
<213> Conus achatinus
<220>
<221> SITE
<222> (6)..(10)
<223> Xaa at residue 6 is Pro or hydroxy-Pro; Xaa at
      residue 11 is Glu or gamma-carboxy-Glu.
<400> 171
Gly Cys Cys Ser Asn Xaa Val Cys His Leu Xaa His Ser Asn Leu Cys
                   5
                                        10
<210> 172
<211> 20
<212> PRT
<213> Conus achatinus
<220>
<221> SITE
<222> (1)..(14)
<223> Xaa at residues 1, 11 and 14 is Glu or
      gamma-carboxy-Glu; Xaa at residue 6 is Pro or
      hydroxy-Pro.
Xaa Cys Cys Thr Asn Xaa Val Cys His Val Xaa His Gln Xaa Leu Cys
                                       10
Ala Arg Arg Arg
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<210> 173
<211> 17
<212> PRT
<213> Conus ammiralis
<220>
<221> SITE
<222> (1)..(15)
<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at
      residues 2 and 15 is Glu or gamma-carboxy-Glu; Xaa
      at residue 6 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
<220>
<221> SITE
<222> (6)..(14)
<223> nitro-Tyr; Xaa at residues 7 and 14 is Pro or
      hydroxy-Pro.
<400> 173
Xaa Xaa Cys Cys Ser Xaa Xaa Ala Cys Asn Leu Asp His Xaa Xaa Leu
                                       10
Cys
<210> 174
<211> 18
<212> PRT
<213> Conus ammiralis
<220>
<221> SITE
<222> (1)..(15)
<223> Xaa at residues 1, 7 and 14 is Pro or hydroxy-Pro;
      Xaa at residues 2 and 15 is Glu or
      gamma-carboxy-Glu.
<400> 174
Xaa Xaa Cys Cys Ser Asp Xaa Arg Cys Asn Ser Thr His Xaa Xaa Leu
                                       10
Cys Gly
<210> 175
<211> 21
<212> PRT
<213> Conus arenatus
<220>
<221> SITE
<222> (7)..(12)
<223> Xaa at residues 7 and 8 is Pro or hydroxy-Pro; Xaa
      at residue 10 is Trp (D or L) or halo-Trp; Xaa at residues 11 and 12 is Lys, N-methyl-Lys,
      N, N-dimethyl-Lys or N, N, N-trimethyl-Lys.
<220>
<221> SITE
<222> (13)..(19)
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<223> Xaa at residue 13 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr ; Xaa at residue 19 is Glu or
      gamma-carboxy-Glu.
<400> 175
Leu Asn Cys Cys Met Ile Xaa Xaa Cys Xaa Xaa Xaa Kaa Gly Asp Arg
                                      10
Cys Ser Xaa Val Arg
             20
<210> 176
<211> 22
<212> PRT
<213> Conus arenatus
<220>
<221> SITE
<222> (9)..(20)
<223> Xaa at residue 9 is Pro or hydroxy-Pro; Xaa at
      residues 12 and 20 is Glu or gamma-carboxy-Glu;
      Xaa at residue 14 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
<220>
<221> SITE
.<222> (9)..(20)
<223> nitro-Tyr.
<400> 176
Ala Phe Gly Cys Cys Asp Leu Ile Xaa Cys Leu Xaa Arg Xaa Gly Asn
                                      10
Arg Cys Asn Xaa Val His
             20
<210> 177
<211> 21
<212> PRT
<213> Conus arenatus
<220>
<221> SITE
<222> (8)..(16)
<223> Xaa at residue 8 is Pro or hydroxy-Pro; Xaa at
      residue 10 is Trp (D or L) or halo-Trp; Xaa at
      residues 12 and 16 is Lys, N-methyl-Lys,
      N, N-dimethyl-Lys or N, N, N-trimethyl-Lys.
<220>
<221> SITE
<222> (11)..(19)
<223> Xaa at residues 11 and 19 is Glu or
      gamma-carboxy-Glu; Xaa at residue 13 is Tyr,
      mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,
      O-phospho-Tyr or nitro-Tyr.
<400> 177
Leu Gly Cys Cys Asn Val Thr Xaa Cys Xaa Xaa Xaa Xaa Gly Asp Xaa
                                      10
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Cys Asn Xaa Val Arg
             20
<210> 178
<211> 20
<212> PRT
<213> Conus arenatus
<220>
<221> SITE
<222> (2)..(14)
<223> Xaa at residue 2 is Glu or gamma-carboxy-Glu; Xaa
      at residues 7 and 14 is Pro or hydroxy-Pro.
<400> 178
Asp Xaa Cys Cys Ser Asn Xaa Ala Cys Arg Val Asn Asn Xaa His Val
Cys Arg Arg Arg
             20
<210> 179
<211> 21
<212> PRT
<213> Conus arenatus
<220>
<221> SITE
<222> (7)..(13)
<223> Xaa at residue 7 is Pro or hydroxy-Pro; Xaa at
      residue 10 is Trp (D or L) or halo-Trp; Xaa at
      residue 12 is Glu or gamma-carboxy-Glu; Xaa at
      residue 13 is Tyr, nor-Tyr, mono-halo-Tyr,
<220>
<221> SITE
<222> (13)..(19)
<223> di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr; Xaa at residues 14 and 19 is Lys,
      N-methyl-Lys, N, N-dimethyl-Lys or
      N, N, N-trimethyl-Lys.
<400> 179
Leu Asn Cys Cys Ser Ile Xaa Gly Cys Xaa Asn Xaa Xaa Asp Arg
  1
Cys Ser Xaa Val Arg
             20
<210> 180
<211> 18
<212> PRT
<213> Conus aurisiacus
<220>
<221> SITE
<222> (7)..(14)
<223> Xaa at residues 7 and 14 is Pro or hydroxy-Pro;
      Xaa at residue 10 is Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr.
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<400> 180
Gly Gly Cys Cys Ser His Xaa Val Cys Xaa Phe Asn Asn Xaa Gln Met
Cys Arg
<210> 181
<211> 18
<212> PRT
<213> Conus aurisiacus
<220>
<221> SITE
<222> (7)..(14)
<223> Xaa at residues 7 and 14 is Pro or hydroxy-Pro.
<400> 181
Gly Gly Cys Cys Ser His Xaa Val Cys Asn Leu Asn Asn Xaa Gln Met
Cys Arg
<210> 182
<211> 17
<212> PRT
<213> Conus bandanus
<220>
<221> SITE
<222> (6)..(15)
<223> Xaa at residues 6 and 7 is Pro or hydroxy-Pro; Xaa
      at residues 9 and 15 is Tyr, mono-halo-Tyr,
     di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
    nitro-Tyr.
<400> 182
Gly Cys Cys Ser His Xaa Xaa Cys Xaa Ala Asn Asn Gln Ala Xaa Cys
                                      10
Asn
<210> 183
<211> 17
<212> PRT
<213> Conus betulinus
<220>
<221> SITE
<222> (7)..(15)
<223> Xaa at residues 7 and 14 is Pro and hydroxy-Pro;
      Xaa at residue 15 is Glu or gamma-carboxy-Glu.
<400> 183
Gly Gly Cys Cys Ser His Xaa Ala Cys Ser Val Thr His Xaa Xaa Leu
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Cys

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<210> 184
<211> 18
<212> PRT
<213> Conus betulinus
<220>
<221> SITE
<222> (6)..(12)
<223> Xaa at residue 6 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr; Xaa at residue 7 is Pro and
      hydroxy-Pro; Xaa at residue 12 is Glu or
<220>
<221> SITE
<222> (6)..(12)
<223> gamma-carboxy-Glu.
<400> 184
Gly Gly Cys Cys Ser Xaa Xaa Ala Cys Ser Val Xaa His Gln Asp Leu
                  5
Cys Asp
<210> 185
<211> 25
<212> PRT
<213> Conus caracteristicus
<220>
<221> SITE
<222> (8)..(22)
<223> Xaa at residues 8 and 22 is Pro or hydroxy-Pro;
      Xaa at residue 10 is Trp (D or L) or halo-Trp; Xaa
      at residue 13 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
<220>
<221> SITE
<222> (8)..(22)
<223> nitro-Tyr; Xaa at residues 15, 16 and 19 is Glu
      or gamma-carboxy-Glu.
<400> 185
Val Ser Cys Cys Val Val Arg Xaa Cys Xaa Ile Arg Xaa Gln Xaa Xaa
                                                          15
                                      10
Cys Leu Xaa Ala Asp Xaa Arg Thr Leu
             20
<210> 186
<211> 21
<212> PRT
<213> Conus caracteristicus
<220>
<221> SITE
<222> (1)..(19)
<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at
```

residue 7 is Pro or hydroxy-Pro; Xaa at residue 10

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is Trp (D or L) or halo-Trp; Xaa at residues 11
      and 19 is Glu or gamma-carboxy-Glu.
<220>
<221> SITE
<222> (12)..(16)
<223> Xaa at residues 12 and 16 is Lys, N-methyl-Lys,
      N, N-dimethyl-Lys or N, N, N-trimethyl-Lys; Xaa at
      residue 13 is Tyr, mono-halo-Tyr, di-halo-Tyr,
      O-sulpho-Tyr, O-phospho-Tyr or nitro-Tyr.
<400> 186
Xaa Asn Cys Cys Ser Ile Xaa Gly Cys Xaa Xaa Xaa Xaa Gly Asp Xaa
Cys Ser Xaa Val Arg
<210> 187
<211> 16
<212> PRT
<213> Conus catus
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6 and 13 is Pro'or hydroxy-Pro;
      Xaa at residue 11 is Glu or gamma-carboxy-Glu.
<400> 187
Gly Cys Cys Ser Asn Xaa Val Cys His Leu Xaa His Xaa Asn Ala Cys
<210> 188
<211> 17
<212> PRT
<213> Conus catus
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro;
      Xaa at residue 9 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr.
<400> 188
Gly Cys Cys Ser Asn Xaa Ile Cys Xaa Phe Asn Asn Xaa Arg Ile Cys
                                      10
Arg
<210> 189
<211> 17
<212> PRT
<213> Conus episcopatus
<220>
<221> SITE
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<222> (1)..(14)
<223> Xaa at residues 1 and 14 is Glu or
      gamma-carboxy-Glu; Xaa at residues 6, 7 and 13 is
      Pro or hydroxy-Pro; Xaa at residue 10 is Trp (D or
      L) or halo-Trp.
<220>
<221> SITE
<222> (11)
<223> Xaa at residue 11 is Lys, N-methyl-Lys,
      N, N-dimethyl-Lys or N, N, N-trimethyl-Lys.
<400> 189
Xaa Cys Cys Ser Gln Xaa Xaa Cys Arg Xaa Xaa His Xaa Xaa Leu Cys
                                      10
Ser
<210> 190
<211> 16
<212> PRT -
<213> Conus geographus
<220>
<221> SITE
<222> (6)
<223> Xaa at residue 6 is Pro or hydroxy-Pro.
Gly Cys Cys Ser His Xaa Ala Cys Ala Gly Asn Asn Gln His Ile Cys
<210> 191
<211> 18
<212> PRT
<213> Conus geographus
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro.
<400> 191
Gly Cys Cys Ala Val Xaa Ser Cys Arg Leu Arg Asn Xaa Asp Leu Cys
Gly Gly
<210> 192
<211> 16
<212> PRT
<213> Conus imperialis
<220>
<221> NP BIND
<222> (6)..(13)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro. .
<400> 192
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Gly Cys Cys Ser His Xaa Ala Cys Asn Val Asn Asn Xaa His Ile Cys
                                      10
<210> 193
<211> 20
<212> PRT
<213> Conus lividus
<220>
<221> SITE
<222> (2)..(10)
<223> Xaa at residues 2, 7, 9 and 10 is Pro or
      hydroxy-Pro; Xaa at residues 3 and 4 is Glu or
      gamma-carboxy-Glu.
<400> 193
Thr Xaa Xaa Xaa Cys Cys Xaa Asn Xaa Xaa Cys Phe Ala Thr Asn Ser
                                      10
                                                           15
Asp Ile Cys Gly
<210> 194
<211> 17
<212> PRT
<213> Conus lividus
<220>
<221> SITE
<222> (7)...(12)
<223> Xaa at residue 7 is Pro or hydroxy-Pro; Xaa at
      residue 12 is Lys, N-methyl-Lys, N,N-dimethyl-Lys
      or N, N, N-trimethyl-Lys.
<400> 194
Asp Ala Cys Cys Ser Asp Xaa Arg Cys Ser Gly Xaa His Gln Asp Leu
                                      10
Cys
<210> 195
<211> 17
<212> PRT
<213> Conus lividus
<220>
<221> SITE
<222> (1)..(7)
<223> Xaa at residue 1 is Glu or gamma-carboxy-Glu; Xaa
      at residue 7 is Pro or hydroxy-Pro.
<400> 195
Xaa Asp Cys Cys Ser Asp Xaa Arg Cys Ser Val Gly His Gln Asp Leu
Cys
```

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<211> 16
<212> PRT
<213> Conus lividus
<220>
<221> SITE
<222> (6)
<223> Xaa at residue 6 is Pro or hydroxy-Pro.
<400> 196
Gly Cys Cys Ser His Xaa Ala Cys Ala Gly Ser Asn Ala His Ile Cys
                                      10
<210> 197
<211> 17
<212> PRT
<213> Conus lividus
<220>
<221> SITE
<222> (1)..(7)
<223> Xaa at residue 1 is Glu or gamma-carboxy-Glu; Xaa
      at residue 7 is Pro or hydroxy-Pro.
<400> 197
Xaa Asp Cys Cys Ser Asp Xaa Arg Cys Ser Val Gly His Gln Asp Met
Cys
<210> 198
<211> 16
<212> PRT
<213> Conus lividus
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro.
<400> 198
Gly Cys Cys Ser His Xaa Ala Cys Ala Gly Asn Asn Xaa His Ile Cys
<210> 199
<211> 17
<212> PRT
<213> Conus lividus
<220>
<221> SITE
<222> (6)..(14)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro;
      Xaa at residue 14 is Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr.
<400> 199
Gly Cys Cys Gly Asn Xaa Ser Cys Ser Ile His Ile Xaa Xaa Val Cys
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Asn

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<210> 200
<211> 21
 <212> PRT
 <213> Conus lividus
<220>
 <221> SITE
 <222> (4)..(5)
 <223> Xaa at residues 4 and 5 is Glu or
      gamma-carboxy-Glu.
 <400> 200
Thr Asp Ser Xaa Xaa Cys Cys Leu Asp Ser Arg Cys Ala Gly Gln His
                                       10
Gln Asp Leu Cys Gly
              20
<210> 201
<211> 17
<212> PRT
<213> Conus marmoreus
<220> ·
<221> SITE
<222> (6)...(15)
<223> Xaa at residues 6 and 7 is Pro or hydroxy-Pro; Xaa
      at residues 9 and 15 is Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr.
<400> 201
Gly Cys Cys Ser Asn Xaa Xaa Cys Xaa Ala Asn Asn Gln Ala Xaa Cys
                                     . 10
Asn
<210> 202
<211> 16
<212> PRT
<213> Conus marmoreus
<220>
·<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro.
<400> 202 ·
Gly Cys Cys Ser His Xaa Ala Cys Ser Val Asn Asn Xaa Asp Ile Cys
<210> 203
<211> 18
<212> PRT
<213> Conus musicus
```

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<220>
<221> SITE
<222> (2)..(15)
<223> Xaa at residues 2 and 12 is Lys, N-methyl-Lys,
      N, N-dimethyl-Lys or N, N, N-trimethyl-Lys; Xaa at
      residue 14 is Pro or hydroxy-Pro.
<220>
<221> SITE
<222> (16)
<223> Xaa at residue 16 is Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr.
<400> 203
Gly Xaa Cys Cys Ile Asn Asp Ala Cys Arg Ser Xaa His Xaa Gln Xaa
Cys Ser
<210> 204
<211> 17
<212> PRT
<213> Conus musicus
<220>
<221> SITE
<222> (4)..(15)
<223> Xaa at residues 4 and 15 is Tyr, nor-Tyr,
      mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,
      O-phospho-Tyr or nitro-Tyr; Xaa at residue 13 is
      Pro or hydroxy-Pro.
<400> 204
Gly Cys Cys Xaa Asn Ile Ala Cys Arg Ile Asn Asn Xaa Arg Xaa Cys
                                      10
                                                           15
Arg
<210> 205
<211> 17
<212> PRT
<213> Conus obscurus
<220>
<221> SITE
<222> (6)..(15)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro;
      Xaa at residues 12 and 15 is Tyr, nor-Tyr,
      mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,
      O-phospho-Tyr or nitro-Tyr.
<220>
<221> SITE
<222> (14)
<223> Xaa at residue 14 is Lys, N-methyl-Lys,
      N, N-dimethyl-Lys or N, N, N-trimethyl-Lys.
<400> 205
Gly Cys Cys Ser His Xaa Val Cys Arg Phe Asn Xaa Xaa Xaa Cys
```

.1 10 15 Gly <210> 206 <211> 18 <212> PRT <213> Conus obscurus <220> <221> SITE <222> (2)..(15) <223> Xaa at residue 2 is Glu or gamma-carboxy-Glu; Xaa at residues 7, 8 and 14 is Pro or hydroxy-Pro; Xaa at residue 15 is Tyr, nor-Tyr, mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or <220> <221> SITE <222> (2)..(15) <223> nitro-Tyr <400> 206 Asp Xaa Cys Cys Ala Ser Xaa Xaa Cys Arg Leu Asn Asn Xaa Xaa Val 10 15 Cys His <210> 207 <211> 19 <212> PRT <213> Conus obscurus <220> <221> SITE <222> (6)..(18) <223> Xaa at residue 6 is Pro or hydroxy-Pro; Xaa at residue 9 is Trp (D or L) or halo-Trp; Xaa at residues 14 and 18 is Glu or gamma-carboxy-Glu. <220> <221> SITE <222> (15) <223> Xaa at residue 15 is Tyr, nor-Tyr, mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or nitro-Tyr. <400> 207 Gly Cys Cys Ser Asn Xaa Val Cys Xaa Gln Asn Asn Ala Xaa Xaa Cys 10 Arg Xaa Ser <210> 208 <211> 16 <212> PRT <213> Conus obscurus

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<220>
<221> SITE
<222> (6)..(15)
<223> Xaa at residues 6 and 7 is Pro or hydroxy-Pro; Xaa
      at residue 15 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr.
<400> 208
Gly Cys Cys Ser His Xaa Xaa Cys Ala Gln Asn Asn Gln Asp Xaa Cys
                                      10
<210> 209
<211> 19
<212> PRT
<213> Conus obscurus
<220>
<221> SITE
<222> (6)..(15)
<223> Xaa at residue 6 is Pro or hydroxy-Pro; Xaa at
      residues 14 and 18 is Glu or gamma-carboxy-Glu;
      Xaa at residue 15 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
<220>
<221> SITE
<222> (6)..(15)
<223> nitro-Tyr.
<400> 209
Gly Cys Cys Ser His Xaa Ala Cys Ser Gly Asn Asn Arg Xaa Xaa Cys
                                      10
Arg Xaa Ser
<210> 210
<211> 18
<212> PRT
<213> Conus omaria
<220>
<221> SITE
<222> (2)..(15)
<223> Xaa at residues 2, 7 and 14 is Pro or hydroxy-Pro;
      Xaa at residue 6 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr; Xaa at residue 15 is Glu or
<220>
<221> SITE
<222> (2)..(15)
<223> gamma-carboxy-Glu
<400> 210
Asp Xaa Cys Cys Ser Xaa Xaa Asp Cys Gly Ala Asn His Xaa Xaa Ile
Cys Gly
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<210> 211
<211> 17
<212> PRT
<213> Conus omaria
<220>
<221> SITE
<222> (1)..(14)
<223> Xaa at residues 1 and 14 is Glu or
      gamma-carboxy-Glu; Xaa at residues 6, 7 and 13 is
      Pro or hydroxy-Pro; Xaa at residue 10 is Trp (D or
      L) or halo-Trp.
<220>
<221> SITE
<222> (11)
<223> Xaa at residue 11 is Lys, N-methyl-Lys,
      N, N-dimethyl-Lys or N, N, N-trimethyl-Lys.
<400> 211
Xaa Cys Cys Ser Gln Xaa Xaa Cys Arg Xaa Xaa His Xaa Xaa Leu Cys
                                      10
Ser
<210> 212
<211> 16
<212> PRT
<213> Conus omaria
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro.
<400> 212
Gly Cys Cys Ser His Xaa Ala Cys Ala Gly Asn Asn Xaa His Ile Cys
<210> 213
<211> 16
<212> PRT
<213> Conus omaria
<220>
<221> SITE
<222> (6)..(15)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro;
     Xaa at residue 15 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr.
<400> 213
Gly Cys Cys Ser Asp Xaa Ser Cys Asn Val Asn Asn Xaa Asp Xaa Cys
                                      10
<210> 214
<211> 18
<212> PRT
<213> Conus omaria
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<220>
<221> SITE
<222> (1)..(7)
<223> Xaa at residues 1 and 2 is Glu or
     gamma-carboxy-Glu; Xaa at residue 7 is Pro or
      hydroxy-Pro.
Xaa Xaa Cys Cys Ser Asp Xaa Arg Cys Ser Val Gly His Gln Asp Met
                                      10
Cys Arg
<210> 215
<211> 17
<212> PRT
<213> Conus purpurascens
<220> -
<221> SITE
<222> (7)..(15)
<223> Xaa at residue 7 is Pro or hydroxy-Pro; Xaa at
      residue 15 is Glu or gamma-carboxy-Glu.
<400> 215
Gly Gly Cys Cys Ser Asn Xaa Ala Cys Leu Val Asn His Leu Xaa Met
                                     10
Cys
<210> 216
<211> 18
<212> PRT
<213> Conus purpurascens
<220>
<221> SITE
<222> (3)..(15)
<223> Xaa at residues 3, 8 and 15 is Pro or hydroxy-Pro.
<400> 216
Arg Asp Xaa Cys Cys Phe Asn Xaa Ala Cys Asn Val Asn Asn Xaa Gln
Ile Cys
<210> 217
<211> 21
<212> PRT
<213> Conus purpurascens
<220>
<221> SITE
<222> (5)..(8)
<223> Xaa at residue 5 is Pro or hydroxy-Pro; Xaa at
     residue 8 is Trp (D or L) or halo-Trp.
<400> 217
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Cys Cys Ser Asp Xaa Ser Cys Xaa Arg Leu His Ser Leu Ala Cys Thr
                                      10
                                                           15
Gly Ile Val Asn Arg
             20
<210> 218
<211> 16
<212> PRT
<213> Conus purpurascens
<220>
<221> SITE
<222> (5)
<223> Xaa at residue 5 is Pro or hydroxy-Pro.
<400> 218
Cys Cys Thr Asn Xaa Ala Cys Leu Val Asn Asn Ile Arg Phe Cys Gly
                                      10
                                                          15
<210> 219
<211> 18
<212> PRT
<213> Conus regius
<220>
<221> SITE
<222> (2)..(7)
<223> Xaa at residue 2 is Glu or gamma-carboxy-Glu; Xaa
      at residue 7 is Pro or hydroxy-Pro.
<400> 219
Asp Xaa Cys Cys Ser Asp Xaa Arg Cys His Gly Asn Asn Arg Asp His
1.
                                                          15
Cys Ala
<210> 220
<211> 17
<212> PRT
<213> Conus regius
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro.
Asp Cys Cys Ser His Xaa Leu Cys Arg Leu Phe Val Xaa Gly Leu Cys
                                      10
Ile
<210> 221
<211> 17
<212> PRT
<213> Conus regius
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<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro;
      Xaa at residue 9 is Lys, N-methyl-Lys,
      N, N-dimethyl-Lys or N, N, N-trimethyl-Lys.
<220>
<221> SITE
<222> (12)
<223> Xaa at residue 12 is Tyr, nor-Tyr, mono-halo-Tyr,
      di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
      nitro-Tyr.
<400> 221
Gly Cys Cys Ser His Xaa Val Cys Xaa Val Arg Xaa Xaa Asp Leu Cys
Arg
<210> 222
<211> 16
<212> PRT
<213> Conus regius
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro.
Gly Cys Cys Ser His Xaa Ala Cys Asn Val Asn Asn Xaa His Ile Cys
                                      10
<210> 223
<211> 16
<212> PRT
<213> Conus regius
<220>
<221> SITE
<222> (6)..(12)
<223> Xaa at residue 6 is Pro or hydroxy-Pro; Xaa at
      residue 12 is Tyr, nor-Tyr, nor-Tyr,
      mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,
      O-phospho-Tyr or nitro-Tyr.
<220>
<221> SITE
<222> (9)
<223> Xaa at residue 9 is Lys, N-methyl-Lys,
     N, N-dimethyl-Lys or N, N, N-trimethyl-Lys.
<400> 223
Gly Cys Cys Ser His Xaa Val Cys Xaa Val Arg Xaa Ser Asp Met Cys
<210> 224
<211> 17
<212> PRT
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<213> Conus stercusmuscarum
 <220>
 <221> SITE
 <222> (7)..(14)
 <223> Xaa at residues 7 and 14 is Pro or hydroxy-Pro;
      Xaa at residue 10 is Lys, N-methyl-Lys,
       N, N-dimethyl-Lys or N, N, N-trimethyl-Lys.
 <400> 224
 Gly Gly Cys Cys Ser His Xaa Ala Cys Xaa Val His Phe Xaa His Ser
Cys
<210> 225
<211> 20
<212> PRT
<213> Conus stercusmuscarum
<220>
<221> SITE
<222> (6)..(14)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro;
      Xaa at residue 14 is Glu or gamma-carboxy-Glu.
<400> 225
Val Cys Cys Ser Asn Xaa Val Cys His Val Asp His Xaa Xaa Leu Cys
                                      10
Arg Arg Arg Arg
              20
<210> 226
<211> 17
<212> PRT
<213> Conus striatus
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro.
<400> 226
Gly Cys Cys Ser His Xaa Val Cys Asn Leu Ser Asn Xaa Gln Ile Cys
                                      10
Arg
<210> 227
<211> 18
<212> PRT
<213> Conus textile
<220>
<221> SITE
<222> (1)..(15)
<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at
      residues 2 and 15 is Glu or gamma-carboxy-Glu; Xaa
```

at residues 7 and 14 is Pro or hydroxy-Pro.

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<400> 227
Xaa Xaa Cys Cys Ser His Xaa Ala Cys Asn Val Asp His Xaa Xaa Ile
                                       10
                                                           15
Cys Arg
<210> 228
<211> 17
<212> PRT
<213> Conus tulipa
<220>
<221> SITE
<222> (6)
<223> Xaa at residue 6 is Pro or hydroxy-Pro.
<400> 228
Gly Cys Cys Ser Asn Xaa Ala Cys Leu Val Asn His Ile Arg Phe Cys
                                      10
Gly
<210> 229
<211> 17
<212> PRT
<213> Conus virgo
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6 and 13 is Pro or hydroxy-Pro.
<400> 229
Asp Cys Cys Asp Asp Xaa Ala Cys Thr Val Asn Asn Xaa Gly Leu Cys
                                      10
Thr
<210> 230
<211> 20
<212> PRT
<213> Conus textile
<220>
<221> SITE
<222> (6)..(13)
<223> Xaa at residues 6, 7 and 13 is Pro or hydroxy-Pro;
      Xaa at residue 11 is Lys, N-methyl-Lys,
      N, N-dimethyl-Lys or N, N, N-trimethyl-Lys.
<400> 230
Gly Cys Cys Ser Asn Xaa Xaa Cys Ile Ala Xaa Asn Xaa His Met Cys
                                      10
Gly Gly Arg Arg
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<210> 231
 <211> 18
 <212> PRT
 <213> Conus geographus
 <220>
 <221> SITE
 <222> (5)..(9)
 <223> Xaa at residue 5 is Pro or hydroxy-Pro; Xaa at
       residue 8 is Tyr, nor-Tyr, mono-halo-Tyr,
       di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr or
       nitro-Tyr; Xaa at residue 9 is Glu or
 <220>
<221> SITE
<222> (9)..(14)
 <223> gamma-carboxy-Glu; Xaa at residues 10, 11, 12 and
       14 is Lys, N-methyl-Lys, N,N-dimethyl-Lys or
      N, N, N-trimethyl-Lys.
<400> 231
Cys Cys Thr Ile Xaa Ser Cys Xaa Xaa Xaa Xaa Ile Xaa Ala Cys
                                                           15
Val Phe
<210> 232
<211> 18
<212> PRT
<213> Conus regius
<220>
<221> SITE
<222> (6)..(16)
<223> Xaa at residues 6 and 16 is Pro or hydroxy-Pro;
      Xaa at residue 13 is Lys, N-methyl-Lys,
      N, N-dimethyl-Lys or N, N, N-trimethyl-Lys.
<400> 232
Gly Cys Cys Gly Asn Xaa Ala Cys Ser Gly Ser Ser Xaa Asp Ala Xaa
                  5
                                      10
Ser Cys
<210> 233
<211> 108
<212> DNA
<213> Conus imperialis
<220>
.<221> CDS
<222> (1)..(105)
tct gat gga aag agt gcc gcg gcc aaa gcc aaa ccg tct cac ctg acg
                                                                    48
Ser Asp Gly Lys Ser Ala Ala Ala Lys Ala Lys Pro Ser His Leu Thr
                                      10
gct cca ttc atc agg gac gaa tgc tgt tcc gat tct cgc tgt ggc aag
```

```
Ala Pro Phe Ile Arg Asp Glu Cys Cys Ser Asp Ser Arg Cys Gly Lys
                                  25
              20
                                                       30
aac tgt ctt tga
                                                                    108
Asn Cys Leu
         35
<210> 234
<211> 35
<212> PRT
<213> Conus imperialis
<400> 234
Ser Asp Gly Lys Ser Ala Ala Ala Lys Ala Lys Pro Ser His Leu Thr
                                      10
Ala Pro Phe Ile Arg Asp Glu Cys Cys Ser Asp Ser Arg Cys Gly Lys
                                  25
             20
                                                      30
Asn Cys Leu
<210> 235
<211> 108
<212> DNA
<213> Conus imperialis
<220>
<221> CDS
<222> (1)..(105)
<400> 235
ttt gat gga agg aat gcc cca gcc gac gac aaa gcg tct gac ctg atc
Phe Asp Gly Arg Asn Ala Pro Ala Asp Asp Lys Ala Ser Asp Leu Ile
get caa ate gte agg aga gea tge tgt tee gat egt ege tgt aga tgg
Ala Gln Ile Val Arg Arg Ala Cys Cys Ser Asp Arg Arg Cys Arg Trp
agg tgt ggt tga
                                                                    108
Arg Cys Gly
<210> 236
<211> 35
<212> PRT
<213> Conus imperialis
<400>.236
Phe Asp Gly Arg Asn Ala Pro Ala Asp Asp Lys Ala Ser Asp Leu Ile
Ala Gln Ile Val Arg Arg Ala Cys Cys Ser Asp Arg Arg Cys Arg Trp
Arg Cys Gly
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<210> 237

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<211> 145
 <212> DNA
 <213> Conus regius
 <220>
<221> CDS
 <222> (1)..(105)
 <400> 237
tet gat gga agg aat gee gea gee gae gee aga geg tet eee egg ate
Ser Asp Gly Arg Asn Ala Ala Ala Asp Ala Arg Ala Ser Pro Arg Ile
                                      10
get ett tte ete agg tte aca tge tgt agg aga ggt ace tgt tee eag
                                                                    96
Ala Leu Phe Leu Arg Phe Thr Cys Cys Arg Arg Gly Thr Cys Ser Gln
cac tgt ggt tgaagacact gctgctccag gaccctctga accacgacgt
                                                                    145
His Cys Gly
<210> 238
<211> 35
<212> PRT
<213> Conus regius
<400> 238
Ser Asp Gly Arg Asn Ala Ala Ala Asp Ala Arg Ala Ser Pro Arg Ile
.Ala Leu Phe Leu Arg Phe Thr Cys Cys Arg Arg Gly Thr Cys Ser Gln
                                                       30
His Cys Gly
         35
<210> 239
<211> 145
<212> DNA
<213> Conus regius
<220>
<221> CDS
<222> (1)..(105)
<400> 239
tet aat gga agg aat gee gea gee gae gee aaa geg tet eaa egg ate
                                                                    48
Ser Asn Gly Arg Asn Ala Ala Ala Asp Ala Lys Ala Ser Gln Arg Ile
                                      10
gct cca ttc ctc agg gac tat tgc tgt agg aga cat gcc tgt acg ttg
                                                                    96
Ala Pro Phe Leu Arg Asp Tyr Cys Cys Arg Arg His Ala Cys Thr Leu
             20
att tgt ggt tgaagacgct gctgctccag gaccctctga accacgacgt
                                                                   145
Ile Cys Gly
<210> 240
<211> 35
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<212> PRT

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<213> Conus regius
<400> 240
Ser Asn Gly Arg Asn Ala Ala Ala Asp Ala Lys Ala Ser Gln Arg Ile
Ala Pro Phe Leu Arg Asp Tyr Cys Cys Arg Arg His Ala Cys Thr Leu
Ile Cys Gly
       35
<210> 241
<211> 145
<212> DNA
<213> Conus regius
<220>
<221> CDS
<222> (1)..(105)
<400> 241
tet aat gga agg aat gee gee gee gee aaa geg tet eaa egg ate
Ser Asn Gly Arg Asn Ala Ala Ala Asp Ala Lys Ala Ser Gln Arg Ile
gct cca ttc ctc agg gac tat tgc tgt agg aga cct ccc tgt acg ttg
                                                                    96
Ala Pro Phe Leu Arg Asp Tyr Cys Cys Arg Arg Pro Pro Cys Thr Leu
att tgt ggt tgaagacgct gctgctccag gaccctctga accacgacgt
                                                                    145
Ile Cys Gly
         35
<210> 242
<211> 35
<212> PRT
<213> Conus regius
<400> 242
Ser Asn Gly Arg Asn Ala Ala Ala Asp Ala Lys Ala Ser Gln Arg Ile
Ala Pro Phe Leu Arg Asp Tyr Cys Cys Arg Arg Pro Pro Cys Thr Leu
Ile Cys Gly
         35
<210> 243
<211> 136
<212> DNA
<213> Conus regius
<220>
<221> CDS
<222> (1)..(96)
<400> 243
tet aat aaa agg aag aat gee gea atg ett gae atg ate get eaa eae
Ser Asn Lys Arg Lys Asn Ala Ala Met Leu Asp Met Ile Ala Gln His
```

10 15 ged ata agg ggt tgc tgt tee gat eet ege tgt aga tat aga tgt egt 96 Ala Ile Arg Gly Cys Cys Ser Asp Pro Arg Cys Arg Tyr Arg Cys Arg 20 tgaagacgct gctgctccag gaccctctga accacgacgt 136 <210> 244 <211> 32 <212> PRT <213> Conus regius <400> 244 Ser Asn Lys Arg Lys Asn Ala Ala Met Leu Asp Met Ile Ala Gln His Ala Ile Arg Gly Cys Cys Ser Asp Pro Arg Cys Arg Tyr Arg Cys Arg <210> 245 <211> 145 <212> DNA <213> Conus regius <220> <221> CDS <222> (1)..(105) <400> 245 tit aat gga agg agt gcc gca gcc gac caa aat gcg cct ggc ctg atc 48 Phe Asn Gly Arg Ser Ala Ala Ala Asp Gln Asn Ala Pro Gly Leu Ile 10 get caa gte gte aga gga ggg tge tgt tee gat eee ege tge gee tgg 96 Ala Gln Val Val Arg Gly Gly Cys Cys Ser Asp Pro Arg Cys Ala Trp 20 25 aga tgt ggt tgaagacgtt gctgctccag gaccctctga accacgacgt 145 Arg Cys Gly 35 <210> 246 <211> 35 <212> PRT <213> Conus regius <400> 246 Phe Asn Gly Arg Ser Ala Ala Ala Asp Gln Asn Ala Pro Gly Leu Ile 10 Ala Gln Val Val Arg Gly Gly Cys Cys Ser Asp Pro Arg Cys Ala Trp 25 Arg Cys Gly 35 <210> 247 <211> 145

<212> DNA

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<213> Conus regius
<220>
<221> CDS
<222> (1)..(105)
<400> 247
ttt gat gga agg aat gcc gca gcc gac gcc aaa gtg att aac acg gtc
                                                                    48
Phe Asp Gly Arg Asn Ala Ala Ala Asp Ala Lys Val Ile Asn Thr Val
                                      10
get ega ate gee tgg gat ata tge tgt tee gaa eet gae tgt aac eat
                                                                    96
Ala Arg Ile Ala Trp Asp Ile Cys Cys Ser Glu Pro Asp Cys Asn His
aaa tgt gtt tgaagacget tetgeteeag gaccetetga accaegaegt
                                                                    145
Lys Cys Val
         35
<210> 248
<211> 35
<212> PRT
<213> Conus regius
<400> 248
Phe Asp Gly Arg Asn Ala Ala Ala Asp Ala Lys Val Ile Asn Thr Val
                                     10
Ala Arg Ile Ala Trp Asp Ile Cys Cys Ser Glu Pro Asp Cys Asn His
Lys Cys Val
         35
<210> 249
<211> 136
<212> DNA
<213> Conus regius
<220>
<221> CDS
<222> (1)..(96)
<400> 249
tet aat aaa agg aag aat gee gea atg ett gae atg ate get eaa eae
Ser Asn Lys Arg Lys Asn Ala Ala Met Leu Asp Met Ile Ala Gln His
                  5
gcc ata agg ggt tgc tgt tcc gat cct cgc tgt aaa cat cag tgt ggt
Ala Ile Arg Gly Cys Cys Ser Asp Pro Arg Cys Lys His Gln Cys Gly
             20
tgaagacgct gctgctccag gaccctctga accacgacgt
                                                                   136
<210> 250
<211> 32
<212> PRT
<213> Conus regius
<400> 250
Ser Asn Lys Arg Lys Asn Ala Ala Met Leu Asp Met Ile Ala Gln His
```

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5
                                       10
                                                           15
Ala Ile Arg Gly Cys Cys Ser Asp Pro Arg Cys Lys His Gln Cys Gly
              20
<210> 251
<211> 136
<212> DNA
<213> Conus musicus
<220>
<221> CDS
<222> (1)..(105)
<400> 251
atc aag aat aca gca gcc agc aac aaa gcg tct agc ctg gtg gct ctt
                                                                    48
Ile Lys Asn Thr Ala Ala Ser Asn Lys Ala Ser Ser Leu Val Ala Leu
                                      10
                                                           15
gtt gtc agg gga tgc tgt tac aat cct gtc tgc aag aaa tat tat tgt
                                                                    96
Val Val Arg Gly Cys Cys Tyr Asn Pro Val Cys Lys Lys Tyr Tyr Cys
             20
tgg aaa ggc tgatgctcca ggaccctctg aaccacgacg t
                                                                    136
Trp Lys Gly
<210> 252
<211> 35
<212> PRT
<213> Conus musicus
<400> 252
Ile Lys Asn Thr Ala Ala Ser Asn Lys Ala Ser Ser Leu Val Ala Leu
                                      10
Val Val Arg Gly Cys Cys Tyr Asn Pro Val Cys Lys Lys Tyr Tyr Cys
                                  25
Trp Lys Gly
         35
<210> 253
<211> 148.
<212> DNA
<213> Conus purpurascens
<220>
<221> CDS
<222> (1)..(117)
<400> 253
tct gaa ggc agg aat gct gaa gcc atc gac aac gcc tta gac cag agg
Ser Glu Gly Arg Asn Ala Glu Ala Ile Asp Asn Ala Leu Asp Gln Arg
                                      10
gat cca aag cga cag gag ccg ggg tgc tgt agg cat cct gcc tgt ggg
                                                                    96
Asp Pro Lys Arg Gln Glu Pro Gly Cys Cys Arg His Pro Ala Cys Gly
```

aag aac aga tgt gga aga cgc tgatgctcca ggaccctctg aaccacgacg t

Lys Asn Arg Cys Gly Arg Arg

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<210> 254
 <211> 39
 <212> PRT
<213> Conus purpurascens
 <400> 254
 Ser Glu Gly Arg Asn Ala Glu Ala Ile Asp Asn Ala Leu Asp Gln Arg
 Asp Pro Lys Arg Gln Glu Pro Gly Cys Cys Arg His Pro Ala Cys Gly
                                   25
              20
                                                     . 30
 Lys Asn Arg Cys Gly Arg Arg
          35
 <210> 255
 <211> 156
 <212> DNA
 <213> Conus musicus
 <220>
 <221> CDS
 <222> (1)..(102)
 <400> 255
 tet gat gge agg aat att gea gte gae gae aga tgg tet tte tat aeg
                                                                     48
 Ser Asp Gly Arg Asn Ile Ala Val Asp Asp Arg Trp Ser Phe Tyr Thr
 ctc ttc cat gct act tgc tgt gcc gat cct gac tgt aga ttc cgg ccc
 Leu Phe His Ala Thr Cys Cys Ala Asp Pro Asp Cys Arg Phe Arg Pro
                                   25
 ggt tgt tgatctttgt tcttcaaaga cgctgctggc ccaggaccct ctgaaccacg
                                                                     152
 Gly Cỳs
 acgt
                                                                     156
. <210> 256
 <211> 34
 <212> PRT
 <213> Conus musicus
 <400> 256
 Ser Asp Gly Arg Asn Ile Ala Val Asp Asp Arg Trp Ser Phe Tyr Thr
 Leu Phe His Ala Thr Cys Cys Ala Asp Pro Asp Cys Arg Phe Arg Pro
              20
 Gly Cys
 <210> 257
 <211> 142
 <212> DNA
 <213> Conus musicus
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<220>
<221> CDS
<222> (1)..(102)
<400> 257
atc aag aat act gca gcc agc aac aaa gcg cct agc ctg gtg gct att
Ile Lys Asn Thr Ala Ala Ser Asn Lys Ala Pro Ser Leu Val Ala Ile
gcc gtc agg gga tgc tgt tac aat cct tcc tgt tgg ccg aaa aca tat
                                                                    96
Ala Val Arg Gly Cys Cys Tyr Asn Pro Ser Cys Trp Pro Lys Thr Tyr
tgt agt tggaaaggct gatgctccag gaccctctga accacgacgt
                                                                    142
Cys Ser
<210> 258
<211> 34
<212> PRT
<213> Conus musicus
<400> 258
Ile Lys Asn Thr Ala Ala Ser Asn Lys Ala Pro Ser Leu Val Ala Ile
Äla Val Arg Gly Cys Cys Tyr Asn Pro Ser Cys Trp Pro Lys Thr Tyr
                                  25 .
Cys Ser
<210> 259
<211> 161
<212> DNA
<213> Conus musicus
<220>
<221> CDS
<222> (1)..(108)
<400> 259
tet gat age agg aat gte gea ate gag gae aga gtg tet gae etg eac
                                                                    48
Ser Asp Ser Arg Asn Val Ala Ile Glu Asp Arg Val Ser Asp Leu His
tct atg ttc ttc gat gtt tct tgc tgt agc aat cct acc tgt aaa gaa
                                                                    96
Ser Met Phe Phe Asp Val Ser Cys Cys Ser Asn Pro Thr Cys Lys Glu
acg tat ggt tgt tgatcgttgg ttttgaagac gctgatgctc caggaccctc
                                                                    148
Thr Tyr Gly Cys
         35
tgaaccacga cgt
                                                                    161
<210> 260
<211> 36
<212> PRT
<213> Conus musicus
<400> 260
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Ser Asp Ser Arg Asn Val Ala Ile Glu Asp Arg Val Ser Asp Leu His
                                      10
Ser Met Phe Phe Asp Val Ser Cys Cys Ser Asn Pro Thr Cys Lys Glu
                                                     . 30
Thr Tyr Gly Cys
         35
<210> 261
<211> 156
<212> DNA
<213> Conus musicus
<220>
<221> CDS
<222> (1)..(102)
<400> 261
tct gtt ggc agg aat att gca gtc gac gac aga ggg att ttc tct acg
                                                                    48
Ser Val Gly Arg Asn Ile Ala Val Asp Asp Arg Gly Ile Phe Ser Thr
                                      10
ctc ttc cat gct cat tgc tgt gcc aat ccc atc tgt aaa aac acg ccc
                                                                    96
Leu Phe His Ala His Cys Cys Ala Asn Pro Ile Cys Lys Asn Thr Pro
             20
                                  25
ggt tgt tgatctttgt tcttcaaaga cgctgctggc ccaggaccct ctgaaccacg
                                                                    152
Gly Cys
acgt
                                                                    156
<210> 262
<211> 34
<212> PRT
<213> Conus musicus
<400> 262
Ser Val Gly Arg Asn Ile Ala Val Asp Asp Arg Gly Ile Phe Ser Thr
Leu Phe His Ala His Cys Cys Ala Asn Pro Ile Cys Lys Asn Thr Pro
                                                      30
Gly Cys
<210> 263
<211> 161
<212> DNA
<213> Conus musicus
<220>
<221> CDS
<222> (1)..(108)
<400> 263
tcc gat ggc agg aat gtc gca atc gac gac aga gtg tct gac ctg cac
Ser Asp Gly Arg Asn Val Ala Ile Asp Asp Arg Val Ser Asp Leu His
```

10

tct atg ttc ttc gat a Ser Met Phe Phe Asp I 20	tt gct tgc tgt le Ala Cys Cys 25	aac aat cct acc Asn Asn Pro Thr	tgt aaa gaa 96 Cys Lys Glu 30
acg tat ggt tgt tgatc Thr Tyr Gly Cys 35	gttgg ttttgaag	ac getgatgete cag	gaccete 148
tgaaccacga cgt			161
<210> 264 <211> 36 <212> PRT <213> Conus musicus			
<400> 264 Ser Asp Gly Arg Asn V	al Ala Ile Asp	Asp Arg Val Ser	Asp Leu His 15
Ser Met Phe Phe Asp I	le Ala Cys Cys 25	Asn Asn Pro Thr	Cys Lys Glu 30
Thr Tyr Gly Cys 35			
<210> 265 <211> 161 <212> DNA <213> Conus musicus			
<220> <221> CDS <222> (1)(108)	·		
<400> 265 tct gat ggc agg aat g Ser Asp Gly Arg Asn Va 1 5	tc gca atc gag al Ala Ile Glu	gac aga gtg tct Asp Arg Val Ser 10	gac ctg ctc 48 Asp Leu Leu 15
tct atg ctc ttc gat gr Ser Met Leu Phe Asp Va 20			
acg tat ggt tgt tgated Thr Tyr Gly Cys 35	gttgg ttttgaaga	c gctgatgctc cag	gaccete 148
tgaaccacga cgt			161
<210> 266 <211> 36 <212> PRT <213> Conus musicus		•	
<400> 266 Ser Asp Gly Arg Asn Va 1 5	al Ala Ile Glu	Asp Arg Val Ser	Asp Leu Leu
		10	15

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Thr Tyr Gly Cys
         35
<210> 267
<211> 154
<212> DNA
<213> Conus betulinus
<220>
<221> CDS
<222> (1)..(123)
<400> 267
tat gat ggc agg aat gct gcc gcc gac gac aaa gct ttt gac ctg ctg
                                                                    .48
Tyr Asp Gly Arg Asn Ala Ala Ala Asp Asp Lys Ala Phe Asp Leu Leu
get atg ace ata agg gga gga tge tgt tee tat eet eec tgt ate geg
                                                                    96
Ala Met Thr Ile Arg Gly Gly Cys Cys Ser Tyr Pro Pro Cys Ile Ala
             20
                                  25
agt aat cct aaa tgt ggt gga aga cgc tgatgctcca ggaccctctg
                                                                    143
Ser Asn Pro Lys Cys Gly Gly Arg Arg
         35
aaccacaacg t
                                                                    154
<210> 268
<211> 41
<212> PRT
<213> Conus betulinus
<400> 268
Tyr Asp Gly Arg Asn Ala Ala Ala Asp Asp Lys Ala Phe Asp Leu Leu
Ala Met Thr Ile Arg Gly Gly Cys Cys Ser Tyr Pro Pro Cys Ile Ala
                                                      30
Ser Asn Pro Lys Cys Gly Gly Arg Arg
<210> 269
<211> 151
<212> DNA
<213> Conus lividus
<220>
<221> CDS
<222> (1)..(111)
<400> 269
ttt gat ggc agg aat gct gca ggc aac gcc aaa atg tcc gcc ctg atg
                                                                    48
Phe Asp Gly Arg Asn Ala Ala Gly Asn Ala Lys Met Ser Ala Leu Met
                                      10
ged etg acc atc agg gga tgc tgt ted eat ect gtc tgt age geg atg
                                                                    96
Ala Leu Thr Ile Arg Gly Cys Cys Ser His Pro Val Cys Ser Ala Met
agt cca atc tgt ggc tgaagacgct gatgccccag gaccctctga accacgacgt
                                                                    151
```

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Ser Pro Ile Cys Gly
          35
<210> 270
<211> 37
<212> PRT
<213> Conus lividus
<400> 270
Phe Asp Gly Arg Asn Ala Ala Gly Asn Ala Lys Met Ser Ala Leu Met
                                      10
Ala Leu Thr Ile Arg Gly Cys Cys Ser His Pro Val Cys Ser Ala Met
                                  25
Ser Pro Ile Cys Gly
         35
<210> 271
<211> 196
<212> DNA
<213> Conus musicus
<220>
<221> CDS
<222> (1)..(165)
<400> 271
atc aag aat gct gca gct gac gac aaa gca tct gac ctg ctc tct cag
Ile Lys Asn Ala Ala Ala Asp Asp Lys Ala Ser Asp Leu Leu Ser Gln
atc gtc agg aat gct gca tcc aat gac aaa ggg tct gac ctg atg act
Ile Val Arg Asn Ala Ala Ser Asn Asp Lys Gly Ser Asp Leu Met Thr
             20
ctt gcc ctc agg gga tgc tgt aaa aat cct tac tgt ggt gcg tcg aaa
                                                                    144
Leu Ala Leu Arg Gly Cys Cys Lys Asn Pro Tyr Cys Gly Ala Ser Lys
                             40
aca tat tgt ggt aga aga cgc tgatgctcca ggaccctctg aaccacgacg t
Thr Tyr Cys Gly Arg Arg Arg
     50
<210> 272
<211> 55
<212> PRT
<213> Conus musicus
<400> 272
Ile Lys Asn Ala Ala Ala Asp Asp Lys Ala Ser Asp Leu Leu Ser Gln
                                      10
Ile Val Arg Asn Ala Ala Ser Asn Asp Lys Gly Ser Asp Leu Met Thr
Leu Ala Leu Arg Gly Cys Cys Lys Asn Pro Tyr Cys Gly Ala Ser Lys
         35
Thr Tyr Cys Gly Arg Arg Arg
```

50

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<210> 273
<211> 139
<212> DNA
<213> Conus omaria
<220>
<221>. CDS
<222> (40)..(108)
<400> 273
tctgatggca ggaatgccgc agcgtctgac ctgatggat ctg acc atc aag gga
                                            Leu Thr Ile Lys Gly
tgc tgt tct tat cct ccc tgt ttc gcg act aat cca gac tgt ggt cga
                                                                    102
Cys Cys Ser Tyr Pro Pro Cys Phe Ala Thr Asn Pro Asp Cys Gly Arg
                                      15
cga cgc tgatgctcca ggaccctctg aaccacgacg t
                                                                    139
Arg Arg
<210> 274
<211> 23
<212> PRT
<213> Conus omaria
Leu Thr Ile Lys Gly Cys Cys Ser Tyr Pro Pro Cys Phe Ala Thr Asn
                                      10
Pro Asp Cys Gly Arg Arg Arg
             20
<210> 275.
<211> 126
<212> DNA
<213> Conus radiatus
<220>
<221> CDS
<222> (1)..(123)
<400> 275
ttt gat ggc agg aat gcc gca gcc gac tac aaa ggg tct gaa ttg ctc
                                                                    48
Phe Asp Gly Arg Asn Ala Ala Ala Asp Tyr Lys Gly Ser Glu Leu Leu
get atg acc gtc agg gga gga tgc tgt tcc tat cct ccc tgt atc gca
                                                                    96
Ala Met Thr Val Arg Gly Gly Cys Cys Ser Tyr Pro Pro Cys Ile Ala
                                  25
aat aat cct ctt tgt gct gga aga cgc tga
                                                                    126
Asn Asn Pro Leu Cys Ala Gly Arg Arg
<210> 276
<211> 41
<212> PRT
<213> Conus radiatus
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<400> 276
Phe Asp Gly Arg Asn Ala Ala Ala Asp Tyr Lys Gly Ser Glu Leu Leu
Ala Met Thr Val Arg Gly Gly Cys Cys Ser Tyr Pro Pro Cys Ile Ala
             20
Asn Asn Pro Leu Cys Ala Gly Arg Arg
<210> 277
<211> 126
<212> DNA
<213> Conus radiatus
<220>
<221> CDS
<222> (1)..(123)
<400> 277
ttt gat ggc agg aat gcc gca gcc gac tac aaa ggg tct gaa ttg ctc
Phe Asp Gly Arg Asn Ala Ala Ala Asp Tyr Lys Gly Ser Glu Leu Leu
get atg acc gtc agg gga gga tgc tgt tcc tat cct ccc tgt atc gca
Ala Met Thr Val Arg Gly Gly Cys Cys Ser Tyr Pro Pro Cys Ile Ala
             20
aat aat cct ttt tgt gct gga aga cgc tga
                                                                    126
Asn Asn Pro Phe Cys Ala Gly Arg Arg
<210> 278
<211> 41
<212> PRT
<213> Conus radiatus
<400> 278
Phe Asp Gly Arg Asn Ala Ala Ala Asp Tyr Lys Gly Ser Glu Leu Leu
Ala Met Thr Val Arg Gly Gly Cys Cys Ser Tyr Pro Pro Cys Ile Ala
Asn Asn Pro Phe Cys Ala Gly Arg Arg
         35
<210> 279
<211> 155
<212> DNA
<213> Conus virgo
<220>
<221> CDS
<222> (1)..(114)
<400> 279
tet tat gae agg tat gee teg eec gte gae aga geg tet gee etg ate
Ser Tyr Asp Arg Tyr Ala Ser Pro Val Asp Arg Ala Ser Ala Leu Ile
```

gct cag gcc atc ctt Ala Gln Ala Ile Lev 20	cga Arg	gat tgc Asp Cys	tgt t Cys S 25	cc aat Ser Asn	cct ccc Pro Pro	tgt tcc Cys Ser 30	caa 9 Gln	6
aat aat cca gac tgt Asn Asn Pro Asp Cys 35		taaagac	gct gc	ttgctcd	ca ggacco	ctctg	1	44
aaccacgacg t						•	1	.55
<210> 280 <211> 38 <212> PRT <213> Conus virgo			·			·		
<400> 280 Ser Tyr Asp Arg Tyr		Ser Pro	Val A	sp Arg	Ala Ser	Ala Leu 15	Ile	
Ala Gln Ala Ile Leu 20	Arg A	Asp Cys	Cys S 25	er Asn	Pro Pro	Cys Ser	Gln	
Asn Asn Pro Asp Cys 35	Met			•	• •			
<210> 281 <211> 155 <212> DNA <213> Conus virgo		•						
<220> <221> CDS <222> (1)(114)								
<400> 281 tct tat ggc agg tat Ser Tyr Gly Arg Tyr 1 5	Ala S		Val A					8
gct cag gcc atc ctt Ala Gln Ala Ile Leu 20	cga c Arg A	gat tgc Asp Cys	tgc t Cys S 25	cc aat er Asn	cct cct Pro Pro	tgt gcc Cys Ala 30	cat 9 His	6
aat aat cca gac tgt Asn Asn Pro Asp Cys 35		taaagacg	jct gc	ttgctcc	a ggacco	ctctg	. 1	44
aaccacgacg t					•		1	55
<210> 282 <211> 38 <212> PRT <213> Conus virgo								
<400> 282 Ser Tyr Gly Arg Tyr 1 5	Ala S	Ser Pro		sp Arg 10	Ala Ser	Ala Leu 15	Ile	
Ala Gln Ala Ile Leu 20	Arg A	Asp Cys	Cys S 25	er Asn	Pro Pro	Cys Ala	His	

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Asn Asn Pro Asp Cys Arg
         35
<210> 283
<211> 126
<212> DNA
<213> Conus achatinus
<220>
<221> CDS
<222> (1)..(123)
<400> 283
tot gat ggc agg aat gcc gca gcc aac gac aaa gcg tot ggc atg agc
                                                                   48
Ser Asp Gly Arg Asn Ala Ala Ala Asn Asp Lys Ala Ser Gly Met Ser
                                     10
gcg ctg gcc gtc aat gaa tgc tgt acc aac cct gtc tgt cac gcg gaa
                                                                   96
Ala Leu Ala Val Asn Glu Cys Cys Thr Asn Pro Val Cys His Ala Glu
             20
cat caa gaa ctt tgt gct aga aga cgc tga
                                                                   126
His Gln Glu Leu Cys Ala Arg Arg Arg
         35
<210> 284
<211> 41
<212> PRT
<213> Conus achatinus
<400> 284
Ser Asp Gly Arg Asn Ala Ala Ala Asn Asp Lys Ala Ser Gly Met Ser
                                     10
Ala Leu Ala Val Asn Glu Cys Cys Thr Asn Pro Val Cys His Ala Glu
             20
                                                      30
His Gln Glu Leu Cys Ala Arg Arg Arg
<210> 285
<211> 126
<212> DNA
<213> Conus achatinus
<220>
<221> CDS
<222> (1)..(123)
<400> 285
tct gat ggc agg aat gcc gca gcc aac gac aaa gcg tct gac gtg atc
Ser Asp Gly Arg Asn Ala Ala Ala Asn Asp Lys Ala Ser Asp Val Ile
acg ctg gcc ctc aag gga tgc tgt tcc aac cct gtc tgt cac ttg gag
                                                                   96
Thr Leu Ala Leu Lys Gly Cys Cys Ser Asn Pro Val Cys His Leu Glu
cat tca aac ctt tgt ggt aga aga cgc tga
                                                                   126
His Ser Asn Leu Cys Gly Arg Arg Arg
         35
```

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<210> 286
<211> 41
<212> PRT
<213> Conus achatinus
<400> 286
Ser Asp Gly Arg Asn Ala Ala Ala Asn Asp Lys Ala Ser Asp Val Ile
                                     10
Thr Leu Ala Leu Lys Gly Cys Cys Ser Asn Pro Val Cys His Leu Glu
His Ser Asn Leu Cys Gly Arg Arg Arg
<210> 287
<211> 126
<212> DNA
<213> Conus achatinus
<220>
<221> CDS
<222> (1)..(123)
<400> 287
tot gat ggc agg aat gcc gca gcc aac gac aaa gcg tot ggc atg agc
                                                                   48
Ser Asp Gly Arg Asn Ala Ala Ala Asn Asp Lys Ala Ser Gly Met Ser
                  5
                                     10
gcg ctg gcc gtc aat gaa tgc tgt acc aac cct gtc tgt cac gtg gaa
                                                                   96
Ala Leu Ala Val Asn Glu Cys Cys Thr Asn Pro Val Cys His Val Glu
             20
                                 25
cat caa gaa ctt tgt gct aga aga cgc tga
                                                                   126
His Gln Glu Leu Cys Ala Arg Arg Arg
. 35
<210> 288
<211> 41
<212> PRT
<213> Conus achatinus
<400> 288
Ser Asp Gly Arg Asn Ala Ala Asn Asp Lys Ala Ser Gly Met Ser
Ala Leu Ala Val Asn Glu Cys Cys Thr Asn Pro Val Cys His Val Glu
             20
                                 25
                                                      30
His Gln Glu Leu Cys Ala Arg Arg Arg
<210> 289
<211> 220
<212> DNA
<213> Conus ammiralis
<220>
<221> CDS
<222> (1)..(180)
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<400> 289
atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc acc gtc gtt tcc
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
ttc act tca gat cgt gca ttt cgt ggc agg aat gcc gca gcc aaa gcg
Phe Thr Ser Asp Arg Ala Phe Arg Gly Arg Asn Ala Ala Ala Lys Ala
             20
tet gge etg gte ggt etg ace gae aag agg eaa gaa tge tgt tet tat
                                                                    144
Ser Gly Leu Val Gly Leu Thr Asp Lys Arg Gln Glu Cys Cys Ser Tyr
         35
                              40
cct gcc tgt aac cta gat cat cca gaa ctt tgt ggt tgaagacgct
                                                                    190
Pro Ala Cys Asn Leu Asp His Pro Glu Leu Cys Gly
     50
gatgctccag gaccctctga accacgacgt
                                                                    220
<210> 290
<211> 60
<212> PRT
<213> Conus ammiralis
<400> 290
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
Phe Thr Ser Asp Arg Ala Phe Arg Gly Arg Asn Ala Ala Ala Lys Ala
Ser Gly Leu Val Gly Leu Thr Asp Lys Arg Gln Glu Cys Cys Ser Tyr
                              40
Pro Ala Cys Asn Leu Asp His Pro Glu Leu Cys Gly
<210> 291
<211> 223
<212> DNA
<213> Conus ammiralis
<220>
<221> CDS
<222> (1)..(192)
<400> 291
atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc act gtc gtt tcc
                                                                    48
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
tcc act tca ggt cgt cgt gca ttt cgt ggc agg aat gcc gca gcc aaa
                                                                    96
Ser Thr Ser Gly Arg Arg Ala Phe Arg Gly Arg Asn Ala Ala Ala Lys
gcg tct gga ctg gtc ggt ctg act gac agg aga cca gaa tgc tgt agt
                                                                    144
Ala Ser Gly Leu Val Gly Leu Thr Asp Arg Arg Pro Glu Cys Cys Ser
         35
                             40
gat cct cgc tgt aac tcg act cat cca gaa ctt tgt ggt gga aga cgc
                                                                   192
Asp Pro Arg Cys Asn Ser Thr His Pro Glu Leu Cys Gly Gly Arg Arg
                         55
```

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tgatgctcca ggaccctctg aaccacgacg t
                                                                   223
<210> 292
<211> 64
<212> PRT
<213> Conus ammiralis
<400> 292
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
                                      10
Ser Thr Ser Gly Arg Arg Ala Phe Arg Gly Arg Asn Ala Ala Lys
Ala Ser Gly Leu Val Gly Leu Thr Asp Arg Arg Pro Glu Cys Cys Ser
Asp Pro Arg Cys Asn Ser Thr His Pro Glu Leu Cys Gly Gly Arg Arg
<210> 293
<211> 151
<212> DNA
<213> Conus arenatus
<220>
<221> CDS
<222> (1)..(120)
<400> 293
tet gat gge agg aat gee gea gee aac geg ttt gae etg ate gat etg
Ser Asp Gly Arg Asn Ala Ala Ala Asn Ala Phe Asp Leu Ile Asp Leu
                                     10
acc gcc agg cta aat tgc tgt atg att ccc ccc tgt tgg aag aaa tat
                                                                   96
Thr Ala Arg Leu Asn Cys Cys Met Ile Pro Pro Cys Trp Lys Lys Tyr
             20
                                 25
gga gac aga tgt agt gaa gta cgc tgatgctcca ggaccctctg aaccacgacg
Gly Asp Arg Cys Ser Glu Val Arg
                                                                   151
<210> 294
<211> 40
<212> PRT
<213> Conus arenatus
<400> 294
Ser Asp Gly Arg Asn Ala Ala Ala Asn Ala Phe Asp Leu Ile Asp Leu
Thr Ala Arg Leu Asn Cys Cys Met Ile Pro Pro Cys Trp Lys Lys Tyr
Gly Asp Arg Cys Ser Glu Val Arg
```

<210> 295

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<211> 126
<212> DNA
<213> Conus arenatus
<220>
<221> CDS
<222> (1)..(93)
<400> 295
tct gat ggc agg aat gcc gca cgc aaa gcg ttt ggc tgc tgc gac tta
                                                                    48
Ser Asp Gly Arg Asn Ala Ala Arg Lys Ala Phe Gly Cys Cys Asp Leu
                                      10
ata ccc tgt ttg gag aga tat ggt aac aga tgt aat gaa gtg cac
                                                                    93
Ile Pro Cys Leu Glu Arg Tyr Gly Asn Arg Cys Asn Glu Val His
tgatgctcca ggaccctctg aaccacgcga cgt
                                                                    126
<210> 296
<211> 31
<212> PRT
<213> Conus arenatus
<400> 296
Ser Asp Gly Arg Asn Ala Ala Arg Lys Ala Phe Gly Cys Cys Asp Leu
                                     10
Ile Pro Cys Leu Glu Arg Tyr Gly Asn Arg Cys Asn Glu Val His
<210> 297
<211> 151
<212> DNA
<213> Conus arenatus
<220>
<221> CDS
<222> (1)..(120)
<400> 297
tet gat gge age aat gee gea gee aac gag ttt gae etg ate get etg
Ser Asp Gly Ser Asn Ala Ala Ala Asn Glu Phe Asp Leu Ile Ala Leu
                                      10
ace gee agg eta ggt tge tgt aac gtt aca eee tgt tgg gag aaa tat
                                                                    96
Thr Ala Arg Leu Gly Cys Cys Asn Val Thr Pro Cys Trp Glu Lys Tyr
gga gac aaa tgt aat gaa gta cgc tgatgcttca ggaccctctg aaccacgacg
Gly Asp Lys Cys Asn Glu Val Arg
                                                                    151
<210> 298
<211> 40
<212> PRT
<213> Conus arenatus
<400> 298
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Ser Asp Gly Ser Asn Ala Ala Ala Asn Glu Phe Asp Leu Ile Ala Leu
Thr Ala Arg Leu Gly Cys Cys Asn Val Thr Pro Cys Trp Glu Lys Tyr
Gly Asp Lys Cys Asn Glu Val Arg
<210> 299
<211> 148
<212> DNA
<213> Conus arenatus
<220>
<221> CDS
<222> (1)..(117)
<400> 299
tet gat gge agg aat gte gea gea aaa geg ttt eae egg ate gge egg
                                                                    48
Ser Asp Gly Arg Asn Val Ala Ala Lys Ala Phe His Arg Ile Gly Arg
                                     10
acc atc agg gat gaa tgc tgt tcc aat cct gcc tgt agg gtg aat aat
                                                                    96
Thr Ile Arg Asp Glu Cys Cys Ser Asn Pro Ala Cys Arg Val Asn Asn
             20
                                  25
cca cac gtt tgt aga cga cgc tgatgctcca ggaccctctg aaccacgacg t
                                                                    148
Pro His Val Cys Arg Arg Arg
<210> 300
<211> 39
<212> PRT
<213> Conus arenatus
<400> 300
Ser Asp Gly Arg Asn Val Ala Ala Lys Ala Phe His Arg Ile Gly Arg
Thr Ile Arg Asp Glu Cys Cys Ser Asn Pro Ala Cys Arg Val Asn Asn
             20
                                  25
                                                      30
Pro His Val Cys Arg Arg Arg
         35
<210> 301
<211> 151
<212> DNA
<213> Conus arenatus
<220>
<221> CDS
<222> (1)..(120)
<400> 301
tet gat gge agg aat gee gea gee aac geg ttt gae etg atg eet etg
Ser Asp Gly Arg Asn Ala Ala Ala Asn Ala Phe Asp Leu Met Pro Leu
                                      10
```

acc gcc agg cta aat tgc tgt agc att ccc ggc tgt tgg aac gaa tat

```
Thr Ala Arg Leu Asn Cys Cys Ser Ile Pro Gly Cys Trp Asn Glu Tyr
aaa gac aga tgt agt aaa gta cgc tgatgctcca ggaccctctq aaccacqacq
Lys Asp Arg Cys Ser Lys Val Arg
         35
t
                                                                   151
<210> 302
<211> 40
<212> PRT
<213> Conus arenatus
<400> 302
Ser Asp Gly Arg Asn Ala Ala Asn Ala Phe Asp Leu Met Pro Leu
Thr Ala Arg Leu Asn Cys Cys Ser Ile Pro Gly Cys Trp Asn Glu Tyr
Lys Asp Arg Cys Ser Lys Val Arg
<210> 303
<211> 157
<212> DNA
<213> Conus aurisiacus
<220>
<221> CDS
<222> (52)..(126)
<400> 303
tetgatggea ggaatgeege ageegaegae aaagegtetg acetggtege t etg gte
gtc agg gga gga tgc tgt tcc cac cct gtc tgt tac ttt aat aat cca
                                                                   105
Val Arg Gly Gly Cys Cys Ser His Pro Val Cys Tyr Phe Asn Asn Pro
                             10
caa atg tgt cgt gga aga cgc tgatgctcca ggaccctctg aaccacgacg t
Gln Met Cys Arg Gly Arg Arg
<210> 304
<211> 25
<212> PRT
<213> Conus aurisiacus
<400> 304
Leu Val Val Arg Gly Gly Cys Cys Ser His Pro Val Cys Tyr Phe Asn
Asn Pro Gln Met Cys Arg Gly Arg Arg
```

<210> 305 <211> 157

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<212> DNA
<213> Conus aurisiacus
<220>
<221> CDS
<222> (52)..(126)
<400> 305
tctgatggca ggaatgccgc agccgacgac aaagcgtctg acctggtcgc t ctg gcc
                                                                    57
                                                          Leu Ala
gtc agg gga gga tgc tgt tcc cac cct gtc tgt aac ttg aat aat cca
                                                                    105
Val Arg Gly Gly Cys Cys Ser His Pro Val Cys Asn Leu Asn Asn Pro
                              10
caa atg tgt cgt gga aga cgc tgatgctcca ggaccctctg aaccacgacg t 157
Gln Met Cys Arg Gly Arg Arg
     20
<210> 306
<211> 25
<212> PRT
<213> Conus aurisiacus
<400> 306
Leu Ala Val Arg Gly Gly Cys Cys Ser His Pro Val Cys Asn Leu Asn
                                      10
Asn Pro Gln Met Cys Arg Gly Arg Arg
             20
                                  25
<210> 307 ·
<211> 157
<212> DNA
<2.13> Conus betulinus
<220>
<221> CDS
<222> (1)..(117)
<400> 307
ttt cgt ggc agg aat ccc gca gcc aac gac aaa agg tct gac ctg gcc
Phe Arg Gly Arg Asn Pro Ala Ala Asn Asp Lys Arg Ser Asp Leu Ala
get etg age gte agg gga gga tge tgt tee eat eet gee tgt age gtg
Ala Leu Ser Val Arg Gly Gly Cys Cys Ser His Pro Ala Cys Ser Val
             20
act cat cca gag ctt tgt ggc tgaagacgct gatgccccag gaccctctga
Thr His Pro Glu Leu Cys Gly
         35
accacgacgt
                                                                   157
<210> 308
<211> 39
<212> PRT
<213> Conus betulinus
```

```
<400> 308
Phe Arg Gly Arg Asn Pro Ala Ala Asn Asp Lys Arg Ser Asp Leu Ala
Ala Leu Ser Val Arg Gly Gly Cys Cys Ser His Pro Ala Cys Ser Val
Thr His Pro Glu Leu Cys Gly
<210> 309
<211> 151
<212> DNA
<213> Conus betulinus
<220>
<221> CDS
<222> (1)..(120)
<400> 309
tct gat ggc ggg aat gcc gca gcc aaa gcg tct gac ctg atc gct cag
                                                                    48
Ser Asp Gly Gly Asn Ala Ala Ala Lys Ala Ser Asp Leu Ile Ala Gln
                                      10
acc atc agg gga gga tgc tgt tcc tat cct gcc tgt agc gtg gaa cat
Thr Ile Arg Gly Gly Cys Cys Ser Tyr Pro Ala Cys Ser Val Glu His
                                  25
caa gac ctt tgt gat gga aga cgc tgatgctcca ggaccctctg aaccacgacg
Gln Asp Leu Cys Asp Gly Arg Arg
         35
                                                                    151
<210> 310
<211> 40
<212> PRT
<213> Conus betulinus
<400> 310
Ser Asp Gly Gly Asn Ala Ala Ala Lys Ala Ser Asp Leu Ile Ala Gln
Thr Ile Arg Gly Gly Cys Cys Ser Tyr Pro Ala Cys Ser Val Glu His
Gln Asp Leu Cys Asp Gly Arg Arg
<210> 311
<211> 114
<212> DNA
<213> Conus caracteristicus
<220>
<221> CDS
<222> (1)..(111)
<400> 311
tot tat ggc agg aat gcc gca gcc aaa gcg ttt gaa gtg agt tgc tgt
Ser Tyr Gly Arg Asn Ala Ala Ala Lys Ala Phe Glu Val Ser Cys Cys
```

```
10
gtc gtt cgc ccc tgt tgg att cgc tat caa gag gaa tgt ctt gaa gca
                                                                    96
Val Val Arg Pro Cys Trp Ile Arg Tyr Gln Glu Glu Cys Leu Glu Ala
                                  25
gat ccc agg acc ctc tga
                                                                    114
Asp Pro Arg Thr Leu
         35
<210> 312
<211> 37
<212> PRT
<213> Conus caracteristicus
<400> 312
Ser Tyr Gly Arg Asn Ala Ala Ala Lys Ala Phe Glu Val Ser Cys Cys
                                      10
                                                           15
Val Val Arg Pro Cys Trp Ile Arg Tyr Gln Glu Glu Cys Leu Glu Ala
                                  25
Asp Pro Arg Thr Leu
         35
<210> 313
<211> 123
<212> DNA
<213> Conus caracteristicus
<220>
<221> CDS
<222> (1)..(120)
<400> 313
tet gat ggc agg aat gcc gca gcc aac gcc ctt gac ctg atc act ctg
                                                                    48
Ser Asp Gly Arg Asn Ala Ala Ala Asn Ala Leu Asp Leu Ile Thr Leu
atc gcc agg caa aat tgc tgt agc att ccc ggc tgt tgg gag aaa tat
                                                                    96
Ile Ala Arg Gln Asn Cys Cys Ser Ile Pro Gly Cys Trp Glu Lys Tyr.
                                                      30
gga gac aaa tgt agt gaa gta cgc tga
                                                                    123
Gly Asp Lys Cys Ser Glu Val Arg
<210> 314
<211> 40
<212> PRT
<213> Conus caracteristicus
<400> 314
Ser Asp Gly Arg Asn Ala Ala Ala Asn Ala Leu Asp Leu Ile Thr Leu
                                      10
Ile Ala Arg Gln Asn Cys Cys Ser Ile Pro Gly Cys Trp Glu Lys Tyr
Gly Asp Lys Cys Ser Glu Val Arg
```

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<210> 315
<211> 154
<212> DNA
<213> Conus catus
<220>
<221> CDS
<222> (1)..(123)
<400> 315
tot gat ggc agg aat gaa gca gcc aac gac gaa gcg tot gac gtg atc
Ser Asp Gly Arg Asn Glu Ala Ala Asn Asp Glu Ala Ser Asp Val Ile
                                      10
gag ctg gcc ctc aag gga tgc tgt tcc aac cct gtc tgt cac ttg gag
                                                                    96
Glu Leu Ala Leu Lys Gly Cys Cys Ser Asn Pro Val Cys His Leu Glu
                                  25
cat cca aac gct tgt ggt aga aga cgc tgatgctcca ggaccctctg
                                                                    143
His Pro Asn Ala Cys Gly Arg Arg Arg
aaccacgacg t
                                                                    .154
<210> 316
<211> 41
<212> PRT
<213> Conus catus
<400> 316
Ser Asp Gly Arg Asn Glu Ala Ala Asn Asp Glu Ala Ser Asp Val Ile
                                      10
Glu Leu Ala Leu Lys Gly Cys Cys Ser Asn Pro Val Cys His Leu Glu
His Pro Asn Ala Cys Gly Arg Arg Arg
         35
<210> 317
<211> 154
<212> DNA
<213> Conus catus
<220>
<221> CDS
<222> (1)..(123)
<400> 317
tet gat gge agg aat gee gea gee aac gae aaa geg tet gae etg gte
                                                                    48
Ser Asp Gly Arg Asn Ala Ala Ala Asn Asp Lys Ala Ser Asp Leu Val
get etg gee gte agg gga tge tgt tee aac eet ate tgt tae ttt aat
                                                                    96
Ala Leu Ala Val Arg Gly Cys Cys Ser Asn Pro Ile Cys Tyr Phe Asn
             20
                                                      30
aat cca cga att tgt cgt gga aga cgc tgatgctcca ggaccctctg
                                                                    143
Asn Pro Arg Ile Cys Arg Gly Arg Arg
```

```
aaccacgacg t
                                                                    154
<210> 318
<211> 41
<212> PRT
<213> Conus catus
<400> 318
Ser Asp Gly Arg Asn Ala Ala Ala Asn Asp Lys Ala Ser Asp Leu Val
                                     10
Ala Leu Ala Val Arg Gly Cys Cys Ser Asn Pro Ile Cys Tyr Phe Asn
Asn Pro Arg Ile Cys Arg Gly Arg Arg
<210> 319
<211> 111
<212> DNA
<213> Conus episcopatus
<220>
<221> CDS
<222> (1)..(108)
<400> 319
tct cat ggc agg aat gcc gca cgc aaa gcg tct gac ctg atc gct ctg
                                                                    48
Ser His Gly Arg Asn Ala Ala Arg Lys Ala Ser Asp Leu Ile Ala Leu
                                      10
acc gtc agg gaa tgc tgt tct cag cct ccc tgt cgc tgg aaa cat cca
                                                                    96
Thr Val Arg Glu Cys Cys Ser Gln Pro Pro Cys Arg Trp Lys His Pro
             20
                                                      30
gaa ctt tgt agt tga .
                                                                    111
Glu Leu Cys Ser
         35
<210> 320
<211> 36
<212> PRT
<213> Conus episcopatus
<400> 320
Ser His Gly Arg Asn Ala Ala Arg Lys Ala Ser Asp Leu Ile Ala Leu
Thr Val Arg Glu Cys Cys Ser Gln Pro Pro Cys Arg Trp Lys His Pro
             20
Glu Leu Cys Ser
         35
<210> 321
<211> 151
<212> DNA
<213> Conus geographus
<220>
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<221> CDS
<222> (1)..(120)
<400> 321
tct gat ggc agg aat gac gca gcc aaa gcg ttt gac ctg ata tct tcg
Ser Asp Gly Arg Asn Asp Ala Ala Lys Ala Phe Asp Leu Ile Ser Ser
acc gtc aag aaa gga tgc tgt tcc cat cct gcc tgt gcg ggg aat aat
                                                                    96
Thr Val Lys Lys Gly Cys Cys Ser His Pro Ala Cys Ala Gly Asn Asn
                                 25
caa cat att tgt ggc cga aga cgc tgatgctcca ggaccctctg aaccacgacg
Gln His Ile Cys Gly Arg Arg Arg
t
                                                                    151
<210> 322
<211> 40
<212> PRT
<213> Conus geographus
<400> 322
Ser Asp Gly Arg Asn Asp Ala Ala Lys Ala Phe Asp Leu Ile Ser Ser
                                     10
                                                          15
Thr Val Lys Lys Gly Cys Cys Ser His Pro Ala Cys Ala Gly Asn Asn
                                  25
Gln His Ile Cys Gly Arg Arg Arg
         35
<210> 323
<211> 154
<212> DNA
<213> Conus geographus
<220>
<221> CDS
<222> (1)..(123)
<400> 323
tct gat ggc agg aat gcc gca gcc aac gac caa gcg tct gac ctg atg
                                                                   48
Ser Asp Gly Arg Asn Ala Ala Ala Asn Asp Gln Ala Ser Asp Leu Met
get geg ace gte agg gga tge tgt gee gtt cet tee tgt ege ete egt
                                                                   96
Ala Ala Thr Val Arg Gly Cys Cys Ala Val Pro Ser Cys Arg Leu Arg
aat cca gac ctt tgt ggt gga gga cgc tgatgctcca ggaccctctg
                                                                   143
Asn Pro Asp Leu Cys Gly Gly Arg
         35
aaccacgacg t
                                                                   154
<210> 324
<211> 41
<212> PRT
<213> Conus geographus
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<400> 324

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Ser Asp Gly Arg Asn Ala Ala Ala Asn Asp Gln Ala Ser Asp Leu Met
Ala Ala Thr Val Arg Gly Cys Cys Ala Val Pro Ser Cys Arg Leu Arg
             20
                                 . 25
Asn Pro Asp Leu Cys Gly Gly Gly Arg
         35
<210> 325
<211> 120
<212> DNA
<213> Conus imperialis
<220>
<221> CDS
<222> (1) .. (117)
<400> 325 ·
ctt gat gaa agg aat goo goa goo gac aaa gog tot gac otg ato
                                                                    48
Leu Asp Glu Arg Asn Ala Ala Ala Asp Asp Lys Ala Ser Asp Leu Ile
gct caa atc gtc agg aga gga tgc tgt tcc cat cct gcc tgt aac gtg
                                                                    96
Ala Gln Ile Val Arg Arg Gly Cys Cys Ser His Pro Ala Cys Asn Val
                                  25
                                                      30
aat aat cca cac att tgt ggt tga
                                                                    120
Asn Asn Pro His Ile Cys Gly
<210> 326
<211> 39
<212> PRT
<213> Conus imperialis
<400> 326
Leu Asp Glu Arg Asn Ala Ala Ala Asp Asp Lys Ala Ser Asp Leu Ile
                                      10
Ala Gln Ile Val Arg Arg Gly Cys Cys Ser His Pro Ala Cys Asn Val
             20
Asn Asn Pro His Ile Cys Gly
<210> 327
<211> 142
<212> DNA
<213> Conus lividus
<220> ·
<221> CDS
<222> (1)..(111)
<400> 327
tet gat gge agg aat act gea gee aaa gte aaa tat tet aag acg eeg
Ser Asp Gly Arg Asn Thr Ala Ala Lys Val Lys Tyr Ser Lys Thr Pro
```

gag gaa tgo Glu Glu Cys	tgt ccc Cys Pro 20	aat cct Asn Pro	ccc tgt Pro Cys 25	Phe Ala	aca aat Thr Asn	tcg g Ser A	gat att Asp Ile	96
tgt ggc gga Cys Gly Gly	Arg Arg	tgatgct	cca ggad	cctctg a	accacgac	g t		142
<210> 328 <211> 37 <212> PRT <213> Conus	lividus	· .						
<400> 328 Ser Asp Gly	Arg Asn 5		a Ala Lys	Val Lys 10	Tyr Ser	Lys T	hr Pro 15	
Glu Glu Cys	Cys Pro 20	Asn Pro	Pro Cys		Thr Asn	Ser A	sp Ile	
Cys Gly Gly							;	
<210> 329 <211> 157 <212> DNA <213> Conus	lividus							٠
<220> <221> CDS <222> (1)	(117)	·						
<400> 329 tct aat ggc Ser Asn Gly 1	agg aat Arg Asn 5	gcc gca Ala Ala	gcc aaa .Ala Lys	ttc aaa Phe Lys 10	gcg cct Ala Pro	Ala L	tg atg eu Met 15	48
aag cgg acc Lys Arg Thr	gtc agg Val Arg 20	gat gct Asp Ala	tgc tgt Cys Cys 25	tca gac Ser Asp	cct cgc Pro Arg	tgt t Cys S 30	cc ggg er Gly	96
aaa cat caa Lys His Gln 35				gct gatg	ctccag ga	accctc	tga	147
accacgacgt								157
<210> 330 <211> 39 <212> PRT <213> Conus	lividus							
<400> 330 Ser Asn Gly	Arg Asn	Ala Ala	Ala Lvs	Phe Lvs	Ala Pro	Ala L	eu Met	
1	5			10		٠	15	
Lys Arg Thr	Val Arg 20	Asp Ala	Cys Cys 25	Ser Asp	Pro Arg	Cys S 30	er Gly	

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<210> 331
<211> 157
<212> DNA
<213> Conus lividus
<220>
<221> CDS
<222> (1)..(117)
<400> 331
tct aat ggc agg aat gcc gca gcc aaa ttc aaa gcg cct gcc ctg atg
Ser Asn Gly Arg Asn Ala Ala Ala Lys Phe Lys Ala Pro Ala Leu Met
                                      10
gag ctg acc gtc agg gaa gat tgc tgt tca gac cct cgc tgt tcc gtg
                                                                    96
Glu Leu Thr Val Arg Glu Asp Cys Cys Ser Asp Pro Arg Cys Ser Val
gga cat caa gac ctg tgt ggc tgaagacgct gatgctccag gaccctctga
                                                                    147
Gly His Gln Asp Leu Cys Gly
accacgacgt.
                                                                    157
<210> 332
<211> 39
<212> PRT
<213> Conus lividus
<400> 332
Ser Asn Gly Arg Asn Ala Ala Ala Lys Phe Lys Ala Pro Ala Leu Met
Glu Leu Thr Val Arg Glu Asp Cys Cys Ser Asp Pro Arg Cys Ser Val
Gly His Gln Asp Leu Cys Gly
         35
<210> 333
<211> 157
<212> DNA
<213> Conus lividus
<220>
<221> CDS
<222> (1) .. (126)
<400> 333
gca ttt gat ggc agg aat gct gca gcc agc gac aaa gcg tcc gag ctg
                                                                    48
Ala Phe Asp Gly Arg Asn Ala Ala Ala Ser Asp Lys Ala Ser Glu Leu
 1
atg get etg gee gte agg gga tge tgt tee eat eet gee tgt get ggg
                                                                    96
Met Ala Leu Ala Val Arg Gly Cys Cys Ser His Pro Ala Cys Ala Gly
             20
                                  25
                                                      30
agt aat gca cat atc tgt ggc aga aga cgc tgatgctcca ggaccctctg
                                                                   146
Ser Asn Ala His Ile Cys Gly Arg Arg Arg
         35
                             40
```

aaccacgacg	t												157
<210> 334 <211> 42 <212> PRT <213> Conus	lividus												
<400> 334 Ala Phe Asp 1	Gly Arg 5	Asn	Ala	Ala	Ala	Ser 10	Asp	Lys	Ala	Ser	Glu 15		
Met Ala Leu	Ala Val	Arg	Gly	Cys	Cys 25	Ser	His	Pro	Ala	Cys 30	Ala	Gly	
Ser Asn Ala 35	His Ile	Cys	Gly	Arg 40	Arg	Arg							
<210> 335 <211> 157 <212> DNA <213> Conus	lividus				•					-	•		
<220> <221> CDS <222> (1)	(117)												
<400> 335 tct aat ggc Ser Asn Gly 1													48
aag ctg acc Lys Leu Thr													96
gga cat caa Gly His Gln 35				tgaa	agacç	jct <u>c</u>	gatgo	ctcca	ag ga	accct	ctga	<b>a</b> .	147
atcacgacgt													157
<210> 336 <211> 39 <212> PRT <213> Conus	lividus												
<400> 336 Ser Asn Gly 1	Arg Asn	Ala	Ala	Ala	Lys	Phe 10	Lys	Ala	Pro	Ala	Leu 15	Met	
Lys Leu Thr	Val Arg 20	Glu	Asp	Cys	Cys 25	Ser	Asp	Pro	Arg	Cys 30	Ser	Val	
Gly His Gln 35	Asp Met	Cys	Gly						•		•		
<210> 337 <211> 154 <212> DNA <213> Conus	lividus							-					

<220> <221> CDS <222> (1)(114)				
<400> 337 ttt gaa tgc agg aat Phe Glu Cys Arg Asn 1 5	Ala Ala Gly Asn	gac aaa gcg ac Asp Lys Ala Th	ct gac ctg atg nr Asp Leu Met 15	48
gct ctg act gtc agg Ala Leu Thr Val Arg 20	gga tgc tgt tcc Gly Cys Cys Ser 25	cat cct gcc to His Pro Ala Cy	gt gct ggg aat /s Ala Gly Asn 30	96
aat cca cat atc tgc Asn Pro His Ile Cys 35		gatgetecag gace	ectetga	144
accacgacgt		· .	•	154
<210> 338 <211> 38 <212> PRT <213> Conus lividus				
<400> 338 Phe Glu Cys Arg Asn 1 5		Asp Lys Ala Th	nr Asp Leu Met 15	
Ala Leu Thr Val Arg 20	Gly Cys Cys Ser 25	His Pro Ala Cy	vs Ála Gly Asn 30	
Asn Pro His Ile Cys 35	Gly	·		÷
<210> 339 <211> 154 <212> DNA <213> Conus lividus				
<220> <221> CDS <222> (1)(114)				
<400> 339 ttt gat ggc agg aac Phe Asp Gly Arg Asn 1 5				48
gct ctg act gtc aga Ala Leu Thr Val Arg 20	gga tgc tgt ggc Gly Cys Cys Gly 25	aat cct tca tg Asn Pro Ser Cy	t agc atc cat s Ser Ile His 30	96
att cct tac gtt tgt Ile Pro Tyr Val Cys 35		gatgetecag gace	ectctga	144
accacgacgt				154
<210> 340 <211> 38 <212> PRT			·	

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<213> Conus lividus
<400> 340
Phe Asp Gly Arg Asn Ala Ala Ala Asn Asn Lys Ala Thr Asp Leu Met
                                      10
Ala Leu Thr Val Arg Gly Cys Cys Gly Asn Pro Ser Cys Ser Ile His
                                  25
                                                      .30
Ile Pro Tyr Val Cys Asn
         35
<210> 341
<211> 157
<212> DNA
<213> Conus lividus
<220>
<221> CDS
<222> (1)..(126)
<400> 341
tet aat ggc agg aat gcc gca gcc aaa ttc aaa gcg cct gcc ctg atg
Ser Asn Gly Arg Asn Ala Ala Ala Lys Phe Lys Ala Pro Ala Leu Met
                                      10
aag ogg aco gac ago gaa gaa tgo tgt tta gao tot ogo tgt goo ggg
Lys Arg Thr Asp Ser Glu Glu Cys Cys Leu Asp Ser Arg Cys Ala Gly
                                  25
caa cat caa gac ctg tgt ggc gga aga cgc tgatgeteca ggaceetetg
                                                                    146
Gln His Gln Asp Leu Cys Gly Gly Arg Arg
aaccacgacg t
                                                                    157
<210> 342
<211> 42
<212> PRT
<213> Conus lividus
<400> 342
Ser Asn Gly Arg Asn Ala Ala Ala Lys Phe Lys Ala Pro Ala Leu Met
Lys Arg Thr Asp Ser Glu Glu Cys Cys Leu Asp Ser Arg Cys Ala Gly
Gln His Gln Asp Leu Cys Gly Gly Arg Arg
<210> 343
<211> 126
<212> DNA
<213> Conus marmoreus
<220>
<221> CDS
<222> (1)..(123)
<400> 343
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	gat Asp							aag Lys								48
gct Ala	ctg Leu	acc Thr	gtc Val 20	aag Lys	gga Gly	tgc Cys	tgt Cys	tct Ser 25	aat Asn	cct Pro	ccc Pro	tgt Cys	tac Tyr 30	gcg Ala	aat Asn	96
	caa Gln								tga							126
<211 <212	0> 34 L> 41 2> PF B> Co	L RT	.marn	nore	ıs			٠				•				
	)> 34 Asp		Arg	Asn 5	Ala	Ala	Ala	Lys	Asp 10	Lys	Ala	Ser	Asp	Leu 15	Val	
Ala	Leu	Thr	Val 20	Lys	Gly	Cys	Cys	Ser 25	Asn	Pro	Pro	Cys	Tyr 30	Àla	Asn	
Asn	Gln	Ala 35	Tyr	Cys	Asn	Gly	Arg 40	Arg								
<211	)> 34 .> 11 !> DN	. 7 IA	m - 2 m	orol												
	,, ,	71145	main	iore	15										•	
<220 <221		s			15											
<220 <221 <222 <400 tct	)> .> CD	)S .) ( .5 ggc	(114) agg	aat	gcc	gca Ala	gcc Ala	aag Lys	gac Asp	aaa Lys	gcg Ala	tct Ser	gac Asp	ctg Leu 15	gtc Val	48
<220 <221 <222 <400 tct Ser 1	)> .> CD !> (1 )> 34 gat	os .)( 5 ggc Gly acc	(114) agg Arg gtc	aat Asn 5	gcc Ala gga	Ala tgc	Ala tgt	Lys	Asp 10 cat	Lys	Ala	Ser tgt	Asp	Leu 15 gtg	Val aat	48
<220 <221 <222 <400 tct Ser 1 gct Ala	)> .> CD :> (1 !> 34 gat Asp	oS 5 ggc Gly acc Thr	agg Arg gtc Val 20	aat Asn 5 aag Lys	gcc Ala gga Gly	Ala tgc Cys	Ala tgt	Lys tct Ser	Asp 10 cat	Lys	Ala	Ser tgt	Asp agc Ser	Leu 15 gtg	Val aat	
<220 <221 <222 <400 tct Ser 1 gct Ala aat Asn <210 <211 <212	> CE > CE > 34 gat Asp ctg Leu	S S S S S S S S S S S S S S	agg Arg gtc Val 20 att Ile	aat Asn 5 aag Lys tgt Cys	gcc Ala gga Gly ggt Gly	Ala tgc Cys	Ala tgt	Lys tct Ser	Asp 10 cat	Lys	Ala	Ser tgt	Asp agc Ser	Leu 15 gtg	Val aat	96
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<213> Conus musicus
<220>
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<222> (1)..(114)
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Ser Asp Gly Arg Asn Ala Ala Ala Asn Asn Lys Val Ala Leu Thr Met
agg gga aaa tgc tgt atc aat gat gcg tgt cgc tcg aaa cat cca cag
                                                                   96
Arg Gly Lys Cys Cys Ile Asn Asp Ala Cys Arg Ser Lys His Pro Gln
             20
                                                      30
tac tgt tct gga aga cgc tgatactcca ggaccctctg aaccacgacg t
                                                                   145
Tyr Cys Ser Gly Arg Arg
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<211> 38
<212> PRT
<213> Conus musicus
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Ser Asp Gly Arg Asn Ala Ala Asn Asn Lys Val Ala Leu Thr Met
Arg Gly Lys Cys Cys Ile Asn Asp Ala Cys Arg Ser Lys His Pro Gln
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Tyr Cys Ser Gly Arg Arg
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Ser Asp Gly Arg Asn Ala Ala Ala Asn Asp Lys Val Ser Asp Gln Met
                                     10
gct ctg gtt gtc agg gga tgc tgt tac aat att gcc tgt aga att aat
                                                                   96
Ala Leu Val Val Arg Gly Cys Cys Tyr Asn Ile Ala Cys Arg Ile Asn
             20
aat cca cgg tac tgt cgt gga aaa cgc tgatgttcca ggaccctctg
                                                                   143
Asn Pro Arg Tyr Cys Arg Gly Lys Arg.
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aaccacgacg t
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<211> 41
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Ala Leu Val Val Arg Gly Cys Cys Tyr Asn Ile Ala Cys Arg Ile Asn
Asn Pro Arg Tyr Cys Arg Gly Lys Arg
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                                                          Leu Asn
gtc agg gga tgc tgt tcc cat cct gtc tgt cgc ttc aat tat cca aaa
                                                                    105
Val Arg Gly Cys Cys Ser His Pro Val Cys Arg Phe Asn Tyr Pro Lys
                              10
tat tgt ggt gga aga cgc tgatggtcca ggaccctctg aaccacgacg t
                                                                    154
Tyr Cys Gly Gly Arg Arg
     20
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<211> 24
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<213> Conus obscurus
<400> 352
Leu Asn Val Arg Gly Cys Cys Ser His Pro Val Cys Arg Phe Asn Tyr
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Pro Lys Tyr Cys Gly Gly Arg Arg
             20
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<212> DNA
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124		
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Leu Ala L 1	eu Arg	
gat gaa tgc tgt gcc agt cct ccc tgt cgt ttg aat aat cca tac Asp Glu Cys Cys Ala Ser Pro Pro Cys Arg Leu Asn Asn Pro Tyr 5 10 15	gta 10 Val 20	05
tgt cat tgacgacgct gatgetecag gaceetetga accaegaegt Cys His	15	51
<210> 354 <211> 22 <212> PRT <213> Conus obscurus		
<400> 354 Leu Ala Leu Arg Asp Glu Cys Cys Ala Ser Pro Pro Cys Arg Leu 1 5 10 15		
Asn Pro Tyr Val Cys His		
<210> 355 <211> 217 <212> DNA <213> Conus obscurus	·	
<220> <221> CDS <222> (1)(186)		•
<pre>&lt;400&gt; 355 atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc acc gtc gtt Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val 1 5 10 15</pre>		В
ccc act tca gat cgt gca tct gat agg agg aat gcc gca gcc aaa Pro Thr Ser Asp Arg Ala Ser Asp Arg Arg Asn Ala Ala Ala Lys 20 25 30		6
ttt gac ctg aga tat tcg acc gcc aag aga gga tgc tgt tcc aat Phe Asp Leu Arg Tyr Ser Thr Ala Lys Arg Gly Cys Cys Ser Asn 35 40 45	cct 14 Pro	4 4
gtc tgt tgg cag aat aat gca gaa tac tgt cgt gaa agt ggc Val Cys Trp Gln Asn Asn Ala Glu Tyr Cys Arg Glu Ser Gly 50 55 60	18	86
taatgeteca ggaceetetg aaceaegaeg t	21	17
<210> 356 <211> 62 <212> PRT <213> Conus obscurus		
<pre>&lt;400&gt; 356 Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val 1 5 10 15</pre>	Ser	

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Pro Thr Ser Asp Arg Ala Ser Asp Arg Arg Asn Ala Ala Lys Ala
              20
Phe Asp Leu Arg Tyr Ser Thr Ala Lys Arg Gly Cys Cys Ser Asn Pro
Val Cys Trp Gln Asn Asn Ala Glu Tyr Cys Arg Glu Ser Gly
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<212> DNA
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<220>
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<222> (1)..(168)
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atg ttc acc gtg ttt ctg ttg gtt gtc ttg gca acc acc gtc gtt tcc
                                                                   48
Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
ttc act tca gat cgt gca tct gat ggc ggg aat gtc gca gcg tct cac
                                                                   96
Phe Thr Ser Asp Arg Ala Ser Asp Gly Gly Asn Val Ala Ala Ser His
             20
ctg atc gct ctg acc atc aag gga tgc tgt tct cac cct ccc tgt gcc
                                                                   144
Leu Ile Ala Leu Thr Ile Lys Gly Cys Cys Ser His Pro Pro Cys Ala
cag aat aat caa gad tat tgt ggt tgacgacgct gatgctccag gaccctctga
                                                                   198
Gln Asn Asn Gln Asp Tyr Cys Gly
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accacgacgt
                                                                   208
<210> 358
<211> 56
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<213> Conus obscurus
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Met Phe Thr Val Phe Leu Leu Val Val Leu Ala Thr Thr Val Val Ser
Phe Thr Ser Asp Arg Ala Ser Asp Gly Gly Asn Val Ala Ala Ser His
Leu Ile Ala Leu Thr Ile Lys Gly Cys Cys Ser His Pro Pro Cys Ala
Gln Asn Asn Gln Asp Tyr Cys Gly
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<210> 359
<211> 217
<212> DNA
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<220>

<213> Conus obscurus

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                                                                       48
Met Phe Thr Val Phe Leu Leu Val Val Leu Ser Thr Thr Val Val Ser
                                        10
tee aet tea gat egt gea tet gat agg agg aat gee gea gee aaa geg
                                                                       96
Ser Thr Ser Asp Arg Ala Ser Asp Arg Arg Asn Ala Ala Ala Lys Ala
                                   25
tct gac ctg atg tat tcg acc gtc aag aaa gga tgt tgt tcc cat cct Ser Asp Leu Met Tyr Ser Thr Val Lys Lys Gly Cys Cys Ser His Pro
                                                                       144
                               40
gcc tgt tcg ggg aat aat cga gaa tat tgt cgt gaa agt ggc
                                                                       186
Ala Cys Ser Gly Asn Asn Arg Glu Tyr Cys Arg Glu Ser Gly
taatgctcca ggaccctctg aaccacgacg t
                                                                       217
<210> 3.60
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Met Phe Thr Val Phe Leu Leu Val Val Leu Ser Thr Thr Val Val Ser
                                       10
Ser Thr Ser Asp Arg Ala Ser Asp Arg Arg Asn Ala Ala Ala Lys Ala
Ser Asp Leu Met Tyr Ser Thr Val Lys Lys Gly Cys Cys Ser His Pro
Ala Cys Ser Gly Asn Asn Arg Glu Tyr Cys Arg Glu Ser Gly
<210> 361
<211> 157
<212> DNA
<213> Conus omaria
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<222> (52)..(126)
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tttgatggca ggaatgcctc agccgacagc aaagtggctg cccggatcgc t cag atc
                                                             Gln Ile
                                                               1
gac agg gat cca tgc tgt tcc tat cct gac tgt ggc gcg aat cat cca
Asp Arg Asp Pro Cys Cys Ser Tyr Pro Asp Cys Gly Ala Asn His Pro
gag att tgt ggt gga aaa cgc tgatgctcca ggaccctctg aaccacgacg t
Glu Ile Cys Gly Gly Lys Arg
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<211> 25
<212> PRT
<213> Conus omaria
<400> 362
Gln Ile Asp Arg Asp Pro Cys Cys Ser Tyr Pro Asp Cys Gly Ala Asn
                                      10
His Pro Glu Ile Cys Gly Gly Lys Arg
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<211> 128
<212> DNA
<213> Conus omaria
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<221> CDS
<222> (26)..(88)
<400> 363
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                             Leu Thr Val Arg Glu Cys Cys Ser Gln
cct cct tgt cgc tgg aaa cat cca gaa ctt tgt agt tgaagacgct
                                                                    98
Pro Pro Cys Arg Trp Lys His Pro Glu Leu Cys Ser
gatgctccag gaccctctga accacgacgt
                                                                    128
<210> 364
<211> 21
<212> PRT
<213> Conus omaria
<400> 364
Leu Thr Val Arg Glu Cys Cys Ser Gln Pro Pro Cys Arg Trp Lys His
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Pro Glu Leu Cys Ser
<210> 365
<211> 154
<212> DNA
<213> Conus omaria
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                                                           Leu Ala
gtc agg gga tgc tgt tcc cat cct gcc tgt gct ggg aat aat cca cat
                                                                    105
Val Arg Gly Cys Cys Ser His Pro Ala Cys Ala Gly Asn Asn Pro His
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atc tgt ggc aga aga cgc tgatgctcca ggaccctctg aaccacgacg t
Ile Cys Gly Arg Arg Arg
     20
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<211> 24
<212> PRT
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<400> 366
Leu Ala Val Arg Gly Cys Cys Ser His Pro Ala Cys Ala Gly Asn Asn
                                      10
Pro His Ile Cys Gly Arg Arg Arg
<210> 367
<211> 142
<212> DNA
<213> Conus omaria
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<221> CDS
<222> (40)..(102)
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tetggtgtea ggaaagaege agegeetgge etgateget etg ace ate aag gga
                                            Leu Thr Ile Lys Gly
tgc tgt tct gat cct agc tgt aac gtg aat aat cca gac tat tgt ggt
                                                                   102
Cys Cys Ser Asp Pro Ser Cys Asn Val Asn Asn Pro Asp Tyr Cys Gly
tgacgacgct gatgctccag gaccctctga accacgacgt
                                                                   142
<210> 368
<211> 21
<212> PRT
<213> Conus omaria
<400> 368
Leu Thr Ile Lys Gly Cys Cys Ser Asp Pro Ser Cys Asn Val Asn Asn
Pro Asp Tyr Cys Gly
<210> 369
<211> 157
<212> DNA
<213> Conus omaria
<220>
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<222> (52)..(117)
<400> 369
totaatggca ggaatgccgc agccaaattc aaagcgcctg ccctgatgga g ctg acc
                                                          Leu Thr
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gtc agg gaa gaa tgc tgt tca gac cct cgc tgt tcc gtg gga cat caa Val Arg Glu Glu Cys Cys Ser Asp Pro Arg Cys Ser Val Gly His Gln gat atg tgt cgg tgaagcacgt gatgctccag gaccctctga accacgacgt 157 Asp Met Cys Arg 20 <210> 370 <211> 22 <212> PRT <213> Conus omaria <400> 370 Leu Thr Val Arg Glu Glu Cys Cys Ser Asp Pro Arg Cys Ser Val Gly 10 His Gln Asp Met Cys Arg 20 <210> 371 <211> 151 <212> DNA <213> Conus purpurascens <220> <221> CDS <222> (1)..(120) <400> 371 act gat ggc agg aat gct gca gcc ata gcg ctt gac ctg atc gct ccg Thr Asp Gly Arg Asn Ala Ala Ala Ile Ala Leu Asp Leu Ile Ala Pro gcc gtc agg gga gga tgc tgt tcc aat cct gcc tgt tta gtg aat cat Ala Val Arg Gly Gly Cys Cys Ser Asn Pro Ala Cys Leu Val Asn His 25 cta gaa atg tgt ggt aaa aga cgc tgatgcccca ggaccctctg aaccacgacg Leu Glu Met Cys Gly Lys Arg Arg t 151 <210> 372 <211> 40 <212> PRT <213> Conus purpurascens <400> 372 Thr Asp Gly Arg Asn Ala Ala Ala Ile Ala Leu Asp Leu Ile Ala Pro

Ala Val Arg Gly Gly Cys Cys Ser Asn Pro Ala Cys Leu Val Asn His

Leu Glu Met Cys Gly Lys Arg Arg

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<211> 160
<212> DNA
<213> Conus purpurascens
<220>
<221> CDS
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gct ctg acc gcc agg aga gat cca tgc tgt ttc aat cct gcc tgt aac
Ala Leu Thr Ala Arg Arg Asp Pro Cys Cys Phe Asn Pro Ala Cys Asn
gtg aat aat cca cag att tgt ggt tgaagacgct gatgctccag gaccctctga 150
Val Asn Asn Pro Gln Ile Cys Gly
accacgacgt
                                                                   160
<210> 374
<211> 40
<212> PRT
<213> Conus purpurascens
<400> 374
Ser Asp Gly Arg Asp Ala Ala Ala Asn Asp Lys Ala Ser Asp Leu Ile
                                   . 10
Ala Leu Thr Ala Arg Arg Asp Pro Cys Cys Phe Asn Pro Ala Cys Asn
                              . 25
             20
                                                     30
Val Asn Asn Pro Gln Ile Cys Gly
         35
<210> 375
<211> 151
<212> DNA
<213> Conus purpurascens
<220>
<221> CDS
<222> (1)..(120)
<400> 375
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                                                                   48
Ser Asp Gly Arg Asp Ala Glu Lys Thr Gly Phe Asp Thr Thr Ile Val
ccg gaa gac tgc tgt tcg gat cct tcc tgt tgg agg ctg cat agt tta
                                                                   96
Pro Glu Asp Cys Cys Ser Asp Pro Ser Cys Trp Arg Leu His Ser Leu
get tgt act gga att gta aac ege tgatgeteea ggaeeetetg aaceaegaeg
Ala Cys Thr Gly Ile Val Asn Arg
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<210> 376
<211> 40
<212> PRT
<213> Conus purpurascens
<400> 376
Ser Asp Gly Arg Asp Ala Glu Lys Thr Gly Phe Asp Thr Thr Ile Val
Pro Glu Asp Cys Cys Ser Asp Pro Ser Cys Trp Arg Leu His Ser Leu
Ala Cys Thr Gly Ile Val Asn Arg
<210> 377
<211> 142
<212> DNA
<213> Conus purpurascens
<220>
<221> CDS .
<222> (1)..(111)
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act gat ggc.agg agt gct gca gcc ata gcg ttt gcc ctg atc gct ccg
Thr Asp Gly Arg Ser Ala Ala Ala Ile Ala Phe Ala Leu Ile Ala Pro
                                     10
acc gtc tgc tgt act aat cct gcc tgt ctc gtg aat aat ata cgc ttt
Thr Val Cys Cys Thr Asn Pro Ala Cys Leu Val Asn Asn Ile Arg Phe
             20
tgt ggt gga aga cgc tgatgcccca ggaccctctg aaccacgacg t
                                                                    142
Cys Gly Gly Arg Arg
<210> 378
<211> 37
<212> PRT
<213> Conus purpurascens
<400> 378
Thr Asp Gly Arg Ser Ala Ala Ala Ile Ala Phe Ala Leu Ile Ala Pro
Thr Val Cys Cys Thr Asn Pro Ala Cys Leu Val Asn Asn Ile Arg Phe
             20
                                  25
Cys Gly Gly Arg Arg
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<210> 379
<211> 157
<212> DNA
<213> Conus regius
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<221> CDS -
<222> (1)..(117)
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		atc Ile												His		96
		cgg Arg 35					tga	agac	gct (	gctgo	ctcca	ag ga	accct	tctga	a	147
acca	acga	cgt									•		,			157
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	)> 38 Asp	30 Gly	Arg	Asn 5	Ala	Ala	Ser	Asp	Ala 10	Lys	Ala	Phe	Pro	Arg 15	Ile	
Ala	Pro	Ile	Val 20	Arg	Asp	Glu	Cys	Cys 25	Ser	Asp	Pro	Arg	Cys 30	His	Gly	
Asn	Asn	Arg 35	Asp	His	Cys	Ala	٠									
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	l> CI	os L)(	(117)	٠												
tct	)> 38 gat Asp	31 ggc Gly	agg Arg	aat Asn 5	acc Thr	gcg Ala	gcc Ala	gac Asp	gaa Glu 10	aaa Lys	gcg Ala	tcc Ser	gac Asp	ctg Leu 15	atc Ile	48
tct Ser	caa Gln	act Thr	gtc Val 20	aag Lys	aga Arg	gat Asp	tgc Cys	tgt Cys 25	tcc Ser	cat His	cct Pro	ctc Leu	tgt Cys 30	aga Arg	tta Leu	96
		cca Pro 35					tgaa	agacç	gct o	jetgo	tcca	ig ga	ecct	ctga	1	147
acca	acgac	;t				•										156
<211 <212	)> 38 l> 39 2> PF 3> Co	9	regi	us	٠											
	)> 38 Asp	32 Gly	Arg	Asn	Thr	Ala	Ala	Asp	Glu	Lys	Ala	Ser	Asp	Leu	Ile	

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1
                                      10
                                                          15
Ser Gln Thr Val Lys Arg Asp Cys Cys Ser His Pro Leu Cys Arg Leu
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                                  25
                                                      30
Phe Val Pro Gly Leu Cys Ile
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<213> Conus regius
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Ser Asp Gly Arg Asn Ala Ala Ala Asp Asn Lys Ala Ser Asp Leu Ile
gct caa atc gtc agg aga gga tgc tgt tcc cat cct gtc tgt aaa gtg
Ala Gln Ile Val Arg Arg Gly Cys Cys Ser His Pro Val Cys Lys Val
agg tat cca gac ctg tgt cgt tgaagacgct gctgctccag gaccctctga
Arg Tyr Pro Asp Leu Cys Arg
accacgacgt
                                                                    157
<210> 384
<211> 39
<212> PRT
<213> Conus regius
<400> 384
Ser Asp Gly Arg Asn Ala Ala Ala Asp Asn Lys Ala Ser Asp Leu Ile
Ala Gln Ile Val Arg Arg Gly Cys Cys Ser His Pro Val Cys Lys Val
Arg Tyr Pro Asp Leu Cys Arg
         35
<210> 385
<211> 157
<212> DNA
<213> Conus regius
<220>
<221> CDS
<222> (1)..(117)
<400> 385
tet gat ggc agg aat gee gea gee gae aac aga geg tet gae eta ate
Ser Asp Gly Arg Asn Ala Ala Ala Asp Asn Arg Ala Ser Asp Leu Ile
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Ala Gln Ile	Val A	rg Arg	Gly	Cys	Cys 25	Ser	His	Pro	Ala	Cys 30	Asn	Val	96
aat aat cca Asn Asn Pro 35	His I				agac	gct	gctg	ctcc	ag g	accc	tctg	a .	147
accacgacgt	•									•			157
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Ala Gln Ile	Val A 20	rg Arg	Gly	Cys	Cys 25	Ser	His	Pro	Ala	Cys 30	Asn	Val	·
Asn Asn Pro 35	His I	le Cys	Gly					· .					
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gct caa atc Ala Gln Ile	gtc ac Val A: 20	gg aga rg Arg	gga Gly	tgc Cys	tgt Cys 25	tcg Ser	cat His	cct Pro	gtc Val	tgt Cys 30	aaa Lys	gtg Val	96
agg tat tca Arg Tyr Ser 35	gac at Asp Me	tg tgt et Cys	ggt Gly	tgaa	agaco	jct (	gctgo	eteca	ag ga	accct	ctga	a .	147
accacgacgt					·			•					157
<210> 388 <211> 39 <212> PRT <213> Conus	regius	5							·				
<400> 388 Ser Asp Gly 1	Arg As	sn Ala 5	Ala	Ala	Asp	Asn 10	Lys	Pro	Ser	Asp	Leu 15	Ile	
Ala Gln Ile	Val Ai	rg Arg	Gly	Cys	Cys 25	Ser	His	Pro	Val	Cys	Lys	Val	

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Arg Tyr Ser Asp Met Cys Gly
<210> 389
<211> 154
<212> DNA
<213> Conus stercusmuscarum
<221> CDS
<222> (1)..(114)
<400> 389
tet gat gge agg aat gea gag ega ega eaa age gte tgt eet ggt ege
                                                                    48
Ser Asp Gly Arg Asn Ala Glu Arg Arg Gln Ser Val Cys Pro Gly Arg
                                      10
tct ggc ccc agg gga gga tgt tgt tcc cac cct gcc tgt aag gtg cat
                                                                    96
Ser Gly Pro Arg Gly Gly Cys Cys Ser His Pro Ala Cys Lys Val His
ttt cca cac agt tgt ggt tgacgacgct gatgctccag gaccctctga
                                                                    144
Phe Pro His Ser Cys Gly
         35
accacgacgt
                                                                    154
<210> 390
<211> 38
<212> PRT
<213> Conus stercusmuscarum
<400> 390
Ser Asp Gly Arg Asn Ala Glu Arg Arg Gln Ser Val Cys Pro Gly Arg
                                      10
Ser Gly Pro Arg Gly Gly Cys Cys Ser His Pro Ala Cys Lys Val His
Phe Pro His Ser Cys Gly
<210> 391
<211> 145
<212> DNA
<213> Conus stercusmuscarum
<220>
<221> CDS
<222> (1)..(114)
tet gat gge agg aat gee gea gee age gae aga geg tet gae geg gee
                                                                    48
Ser Asp Gly Arg Asn Ala Ala Ala Ser Asp Arg Ala Ser Asp Ala Ala
cac cag gta tgc tgt tcc aac cct gtc tgt cac gtg gat cat cca gaa
His Gln Val Cys Cys Ser Asn Pro Val Cys His Val Asp His Pro Glu
                                 25
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ctt tgt cgt aga aga cgc tgatgctcca ggaccctctg aaccacgacg t

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Leu Cys Arg Arg Arg Arg
         35
<210> 392
<211> 38
<212> PRT
<213> Conus stercusmuscarum
<400> 392
Ser Asp Gly Arg Asn Ala Ala Ser Asp Arg Ala Ser Asp Ala Ala
His Gln Val Cys Cys Ser Asn Pro Val Cys His Val Asp His Pro Glu
Leu Cys Arg Arg Arg Arg
<210> 393
<211> 154
<212> DNA
<213> Conus striatus
<220>
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<222> (1)..(123)
<400> 393
tct gat ggc agg aat gcc gcg gcc aac gac aaa gcg tct gac ctg gtc
                                                                   48
Ser Asp Gly Arg Asn Ala Ala Asn Asp Lys Ala Ser Asp Leu Val
get eeg gee ate agg gga tge tgt tee eac eet gte tgt aac ttg agt
                                                                   96
Ala Pro Ala Ile Arg Gly Cys Cys Ser His Pro Val Cys Asn Leu Ser
             20
                                 25
aat cca caa att tgt cgt gga aga cgc tgatgctcca ggaccctctg
                                                                  . 143
Asn Pro Gln Ile Cys Arg Gly Arg Arg
                             40
aaccacgacg t
                                                                   154
<210> 394
<211> 41
<212> PRT
<213> Conus striatus
<400> 394
Ser Asp Gly Arg Asn Ala Ala Ala Asn Asp Lys Ala Ser Asp Leu Val
                                     10
Ala Pro Ala Ile Arg Gly Cys Cys Ser His Pro Val Cys Asn Leu Ser
Asn Pro Gln Ile Cys Arg Gly Arg Arg
<210> 395
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<211> 117 <212> DNA

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 Thr Val Trp Glu Gly Cys Cys Ser Asn Pro Ala Cys Leu Val Asn His
              20
                                   25
                                                       30.
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get cag ate gee cat ega gae tge tgt gae gat eet gee tge aee gtg
Ala Gln Ile Ala His Arg Asp Cys Cys Asp Asp Pro Ala Cys Thr Val
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Asn Asn Pro Gly Leu Cys Thr
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Ile Lys Ala Cys Val Phe 35	÷
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Asp Ala Pro Ser Cys Gly 35

BOOMble